PROGRESS REPORT

OF

FOREST ADMINISTRATION

IN THE

HYDERABAD ASSIGNED DISTRICTS

FOR

1891-92.

WITH A REVIEW BY THE RESIDENT AT HYDE[illegible]

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1892.

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X

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From

COLONEL K. J. L. MACKENZIE,

Commissioner, Hyderabad Assigned Districts,

To

THE SECRETARY FOR BERAR TO THE RESIDENT,

Hyderabad.

Dated Amraoti, the 6th August 1892.

SIR,

I have the honor to submit my review on the Hyderabad Assigned Districts Forest Administration Report for 1891-92.

2. It will be seen that the points dealt with by the Government of India in Revenue and Agricultural Forests. Secretary's No. 183-F, reviewing the report for the year previous, 1890-91, have all been attended to. They are as follows:—

1*st*.—The classification under the new rules (*vide* paragraph 3) was completed and sent in for introduction with the new Law (paragraph 11 of the report.) As a consequence the prohibition laid on the giving out of certain lands, mainly in the Wun District, for cultivation is rescindable, and measures are on foot, under the Resident's instructions, to lease these lands. The timber on some of them is thought to have been too highly valued, and this at present stands in the way of their being taken up. The question is being examined, and will shortly be before the Resident for final orders. Meanwhile there is as yet no pressure in that direction to acquire fresh land, and as I have pointed out we risk loss by hasty arrangements. In fact our only loss and trouble in Berar hitherto has come from the izara villages, the lands of which, in our haste to show a good revenue return, we unduly pressed into the market, with the result that, at a small temporary gain, certain far-seeing speculators have enriched themselves to the permanent loss of Government.

2*ndly*.—The demarcation of all the old State Forests (paragraph 4 of review) has been completed (paragraphs 19—25 of the report) and very little of the new remains to be done.

3*rdly*.—Working plans and plans of operations (paragraph 5 of eview) have been very creditably pushed forward—see paragraphs 26 to 36 clusive of the report.

4*thly*.—With the unfortunate exception of Ellichpur, of which notice be taken, a return of undetected cases in offences against the Forest Law een sent in—*vide* paragraph 7 of the review. The report does not itself the nature of the "other offences" in which there has been the , and there is not time left for me to call for an explanation. long personal knowledge, when I was Deputy Commissioner of of forest watch and ward in the Melghat—our chief forest tract— has always been how few are the offences that we have in the complain of, and how excellent detection usually is—few, if eally serious offences going undetected. I regret this cannot respect of the fires in Wun (see paragraph 54 of the report and review) which are undoubtedly the work of incendiaries from izara villages. Placing punitive police or assessing the da- ay of fine on these villages will alone, I am convinced, stop all r is being separately dealt with, and something will be

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arranged before next season. During my last tour I personally warned the izaradars that unless they and their villagers helped us, and gave up those who fired our forests, for they know quite well, or at least can easily discover who does it, we should be driven to making the situation unpleasant for them, and this I shortly propose to do.

5*thly*.—Paragraphs 62 to 68 of the report deal fully with the subject of natural reproduction—*vide* paragraphs 10 and 11 of the review. It seems from some unexplained or unknown natural cause or causes to have been a poor year for seeding; especially, and curiously so, in the case of bamboos.

6*thly*.—Great attention has been given (paragraphs 78—93 of the report) to communications and buildings, and every available rupee has been spent on them.

Very little in the way of communications remains now to be done in the Bairagarh State Reserve. Gugamal has yet to be developed a bit. The traffic along the Selu-Aselwara-Akot road shows how much it was wanted, and how well the money laid out on these roads within these important State Forests have paid. With the Resident's approval, a scheme has been sanctioned—not noticed in the report—for the treatment of certain main lines of communication in the Melghat open forest, which as money is available will gradually be carried out.

Regarding water-supply, I quite agree (paragraph 93 of the report) that something larger than wells are now required at certain centres, and projects to carry this view out will, I hope, soon be in hand.

7*thly*.—Regarding the remark at close of paragraph 13 of the review, the report in paragraphs 100—107 and 110 explains the measures taken in the Melghat to check denudation in the open Melghat forest.

3. What is causing denudation so rapidly is the demand on the part of ginning mills for fuel for their furnaces. These mills are starting up all over the country, even in so comparatively remote a locality as Pusad. They consume annually an enormous quantity of wood. To raise the rates of fuel, as the Conservator suggests, would punish the proprietors of those mills insignificantly without checking denudation, while it would furnish a serious grievance to the country at large. The rich already greatly feel the rise in fuel prices, and the poor are in such serious straits that for the most part they are driven for fuel to rely on cattle droppings. The remedy lies in driving these mills to use coal, either by cheapening the supply from Warora or circling them with nakahs, which should specify the wood they get in at such rates that they would be driven to the C[illegible]inces-Warora collieries, at present the only open source of coal s[illegible]ighbourhood. The Resident is aware that I have been end[illegible] unsuccessfully) to induce dealings with Warora. For as [illegible] get wood at present prices—and wood is cheaper tha[illegible] co[illegible] avoid Warora. And as Warora will not, or cannot, redu[illegible] its c[illegible]Berar (I see no reason why it should) the only remedy l[illegible] for us is, it seems to me, by some device to make wood *to these mills* so that it will then be to their advantage to go to Warora and pay to W[illegible] what it now demands. The difficulty is to arrange this. I have something towards facilitating dealings with Warora, by arranging (the troller not objecting) that Warora bills may be met by money payme[illegible] the local treasury nearest the mill dealing with Warora. The effect [illegible] mains to be seen next season, but I fear it will not be much, and m[illegible] feel that our stable door is open and that our horses (in the shape [illegible] are rapidly disappearing. We made a great mistake at last surv[illegible] ment, I conceive, in allowing the potkharab or unassessed areas a[illegible] of nalahs and streams to be thrown into the adjoining fields as s[illegible] For by doing this we presented *for nothing* to the field-holders t[illegible] simply have been invaluable to the Government and the coun[illegible] fuel reserves. It is having given all this land off that no[illegible] power of people, in the greed of gain, and utterly regardles[illegible] present or future, to themselves or to posterity, to denude the[illegible] temptation arises: and for my part I see no reason why in [illegible] should not take advantage of the coming revision and se[illegible]

mistake. Those who for 30 years have enjoyed the benefit *for nothing* could have no reasonable ground of complaint if we excluded these unassessed areas from the fields and left to them exactly what is assessed and what alone they pay for. I venture to assert that, within 10 or even 5 years, the advantage to the country would be patent. My proposal confines itself solely to the lands situated along the banks of rivers and streams, and not to the exclusion of potkharab everywhere, which would be a bigger and, for practical ends, an unnecessary business. It is really lamentable to see what destruction has been and is being worked by the general clearance going on, which climatically too, if present opinion is correct, must adversely affect the country, besides tending in the future to throw on our necessarily isolated and comparatively speaking, as to area, limited reserves a strain that it is impossible they can bear. At present the fuel question is really a very important one, and I am preparing to deal with it after certain information asked of district officers is got in.

4. The financial results of the year are detailed in paragraph 121 of the report and are very satisfactory. The revenue touches the highest point it has ever yet reached in a total of Rs. 5,11,180, being an advance of Rs. 24,071, and of which, roughly speaking, three-fifths (Rs. 16,000) come from grass and one-fifth (Rs. 5,000) from grazing, showing the pressure of last season for fodder. Our department (see paragraphs 55 to 61) rose to the occasion and threw certain portions of the demarcated reserves open—without, it would appear, any serious damage resulting—wisely showing that they recognize that forests are made for man and not man for the forests.

5. The grazing rotations and babul bun systematic workings will be of great future advantage. I am asking how Amraoti—see Return 2—Fuel, page 16 of the report—from the district reserves can with a smaller output by 25,797 cubic feet have obtained an increase of revenue of Rs. 1,116, for fuel rates in both years, so far as I know, stood at the same figure. The same remark applies to the return from Basim and to the net results shown in the total, but the report gives no explanation of the apparent anomaly.

6. The explanation given of the curious meteorological fact noted during the year, *viz.*, an abnormally small dew deposits in the forests, mentioned in paragraph 130, attributes the cause to an alleged deficiency of moisture in certain winds that prevailed. This implies that the water given up by the winds is superimposed on the leaves as dew; but I have understood that [illegible] careful experiments in England have demonstrated that dew is only to [illegible] the *under* surface of leaves, and comes therefore not from the winds [illegible], but from the vapour given out by the earth below. If this is [illegible] ence of dew means not necessarily less moist land winds, but [illegible] between the temperature of the air at night over the forest [illegible] or the vapour given off by it was so slight as to fail to [illegible] a posit.

Mr. Dickinson, the Conservator, works with great devotion, and per- am much obliged to him for his ready assistance when I have had need him.

Mr. Bhukan's name, the officer now officiating in charge of Buldana, en omitted by oversight from those deserving mention. He has rood work throughout the year as the report in places shows, but is career been an excellent servant to us in the Melghat.

e selections otherwise made: and quite agree that our Forest enerally serve us well. The results in the Melghat are parti- Mr. Prevost. Amongst the Rangers, Misriparsad and Ram- ghat, and Rugonat Singh at Kinwat in Basim, the oldest of mention. I consider too that the Melghat Naka Inspec- ho has considerable and laborious responsibility thrown ntly well and zealously to be mentioned. These old and largely contribute to such success as we are fortunate

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As Mr. Dickinson says, we lost a promising official in Israel-ul-huq. I am glad to confirm the Conservator's testimony that health in the Melghat is improving. This is due, I believe, not only to improvement and care as to the water-supply, but to our employés being able to feed and supply themselves better, now that the country is opened out with roads. They are too better sheltered and housed than they used to be.

8. In conclusion, I would add that I quite agree that the extensions to our reserves suggested in paragraph 18 of the report are desirable, but the matter will be dealt with separately when definite proposals come in.

I have the honor to be,

Sir,

Your most obedient servant,

K. J. L. MACKENZIE,

Commissioner, Hyderabad Assigned Districts.

CAMP No. 25.

FROM

F. B. DICKINSON, ESQ.,

OFFICIATING CONSERVATOR OF FORESTS,

Hyderabad Assigned Districts,

To

THE COMMISSIONER,

HYDERABAD ASSIGNED DISTRICTS.

Dated Camp via *Amraoti*, 20*th June* 1892.

SIR,

I have the honour to forward, for submission to the Resident, the Report on Forest Administration in the Hyderabad Assigned Districts for the year 1891-1892.

I have the honour to be,

Sir,

Your most obedient Servant,

F. B. DICKINSON,

Officiating Conservator of Forests,

Hyderabad Assigned Districts.

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Progress Report of Forest Administration in the Hyderabad Assigned Districts for the year 1891-92.

ERRATA.

I.

Paragraph 9 of the Report.

2nd line— *For* Rs. 5,11,180 and 24,071 *read* Rs. 5,11,185 and 24,076.

II.

Paragraph 95 of the Report.

Statement 2—Fuel.

District reserved and unreserved forests, 1891-92, Wun—*For* Rs. 5,198 *read* Rs. 5,190.

Total—*For* Rs. 53,618 *read* Rs. 53,610.

Difference in favour of or against the year under district reserved and unreserved forests, Wun—*For* Rs. + 1,297 *read* Rs. + 1,289.

Total—*For* Rs. + 1,851 *read* Rs. + 1,843.

III.

Paragraph 119 of the Report.

Year 1891-92—Receipts—*For* Rs. 5,11,180 *read* Rs. 5,11,185.
Charges—*For* Rs. 1,97,340 *read* Rs. 1,98,365.
Surplus—*For* Rs. 3,13,840 *read* Rs. 3,12,820.

IV.

Paragraph 120 of the Report.

1st line—*For* Rs. 24,071 *read* Rs. 24,076.
2nd line—*For* Rs. 28,418 *read* Rs. 29,443, and *for* Rs. 4,347 *read* Rs. 5,367.
3rd line—*For* Rs. 61·3 *read* Rs. 61·2.

V.

Paragraph 121 of the Report.

Firewood and charcoal—*For* Rs. 59,943 *read* Rs. 59,935, and *for* Rs. + 1,037 *read* Rs. + 1,029.

Other minor produce—*For* Rs 23,927 *read* Rs. 23,935, and *for* Rs. + 4,812 *read* Rs. + 4,820.

Miscellaneous sources—*For* Rs. 607 *read* Rs. 612, and *for* [illegible] 261 [illegible] 356.

Total—*For* Rs. 5,11,180 *read* Rs. 5,11,185, and *for* Rs. + 24, [illegible]

VI.

Paragraph 125 of the Report.

[illegible]I—*For* Rs. 4,503, 1,198 *read* Rs. 4,500, 1,201.
[illegible]—*For* Rs. 13,285, 2,296 *read* Rs. 13,287, 2,298.
[illegible]-*For* Rs. 90,081, 18,756, 1,198 *read* Rs. 90,080, 18,758, 1,201.
Rs. 84,053, 5,352 *read* Rs. 84,773, 6,072.
Rs. 8,225, 3,051 *read* Rs. 8,531, 5,357.
[illegible]r Rs. 1,07,259, 96,399, 10,861 *read* Rs. 1,03,285, 96,398, 11,887.
of expenditure— *For* Rs. 1,97,340, 1,68,922, 29,617, 1,198 *read* Rs. 30,645, 1,201.
[illegible]8,419 *read* Rs. 29,444.

VII.

Paragraph 127 of the Report.

1891-92.

[illegible]venue-Surplus—*For* Rs. 3,88,850 *read* Rs. 3,88,227.
[illegible]n, &c.—Deficit—*For* Rs. 75,010 *read* Rs. 75,407.
[illegible]3,88,850 and 75,010 *read* Rs. 3,88,227 and 75,407.

VIII.

Paragraph 128 *of the Report.*

Statement 1.

1891-92.

Revenue—*For* Rs. 1,31,634 *read* Rs. 1,31,635.
For Rs. 2,73,318 *read* Rs. 2,73,322.
For Rs. 5,11,180 *read* Rs. 5,11,185.
Expenditure—*For* Rs. 74,452 *read* Rs. 74,723.
For Rs. 76,522 *read* Rs. 77,212.
For Rs. 46,366 *read* Rs. 46,430.
For Rs. 1,97,340 *read* Rs. 1,98,365.
Surplus—*For* Rs. 57,182 *read* Rs. 56,912.
For Rs. 1,96,796 *read* Rs. 1,96,110.
For Rs. 59,862 *read* Rs. 59,798.
For Rs. 3,13,840 *read* Rs. 3,12,820.

Statement 2.

1891-92.

Direction Office—*For* Rs. 22,176 and 21,808 *read* Rs. 22,290 and 21,922.
Ellichpur Office—*For* Rs. 19,485 and 19,480 *read* Rs. 19,558 and 19,553.
Sub-Total—*For* Rs. 82,603 and 19,480 *read* Rs. 82,676 and 19,553.
Amraoti Office—*For* Rs. 5,185 and 5,180 *read* Rs. 5,209 and 5,204.
Sub-Total—*For* Rs. 13,379 and 5,180 *read* Rs. 13,403 and 5,204.
Akola Office—*For* Rs. 4,399 and 4,336 *read* Rs. 4,424 and 4,361.
Sub-Total—*For* Rs. 15,087 and 4,336 *read* Rs. 15,112 and 4,361.
Buldana Office—*For* Rs. 7,310 (twice) *read* Rs. 7,333 (twice).
Sub-Total—*For* Rs. 18,190 and 7,310 *read* Rs. 18,213 and 7,333.
Basim Office—*For* Rs. 37,735, 7,732 *read* Rs. 88,477, 8,469.
Sub-Total—*For* Rs. 54,987, 20,214, 7,732 *read* Rs. 54,992, 20,956, 8,469.
Wun Office—*For* Rs. 6,652 and 6,649 *read* Rs. 6,676 and 6,673.
Sub-Total—*For* Rs. 25,691 and 6,649 *read* Rs. 25,715 and 6,673.
Total—*For* Rs. 5,11,180, 1,97,340, 72,495 *read* Rs. 5,11,185, 1,98,365, 73,515.
Deduct Deficit—*For* Rs. 72,495 *read* Rs. 73,515.
Net Surplus—*For* Rs. 3,13,840 *read* Rs. 3,12,820.

IX.

Form No. 52.

Amraoti—Chirodi Reserve a[illegible] Total—*For* Rs. 67 *read* Rs. 70.
Total—*For* Rs. 1,025 *read* Rs. 1,028.

X.

F[illegible]m No. 55.

District reserved and unreserved forests, Wun, Miscellaneous—*For* Rs. 466 (twi[illegible] *read* Rs. 474 (twice).
Total—*For* Rs. 8,773 (twice) *read* 8,781 (twice).
Abstract, Miscellaneous, 1891-92—*For* Rs. 6,391 (twice) *read* Rs. 6,399 (twi[illegible]
Total, 1891-92—*For* Rs. 1,23,806 (twice) *read* Rs. 1,23,814 (twice.)

XI.

Form No. 58.

Revenue.

II*b*—Wun—*For* Rs. 5,223-6-9 *read* Rs. 5,215-6-9.
Total—*For* Rs. 59,943-6-3 *read* Rs. 59,935-6-3.
II*d*—Basim—*For* Rs. 28,336-12-2 *read* Rs. 28,366-12-2.
II*e*—Wun—*For* Rs. 8,679-4-9 *read* Rs. 8,687-4-9.
Total—*For* Rs. 23,927-2-7 *read* Rs. 23,935-2-7.
V*b*—Basim—*For* Rs. 4-11-4 *read* Rs. 9-11-4.
Total—*For* Rs. 65-12-11 *read* Rs. 70-12-11.
Total—Basim—*For* Rs. 54,987-1-6 *read* Rs. 54,992-1-6.
Total—*For* Rs. 5,11,180-3-0 *read* Rs. 5,11,185-3-0.

A—Conservancy and Works.

VI*c*—Amraoti—*For* Rs. 253-7-0 *read* Rs. 250-11-0.
Total—*For* Rs. 1,916-14-0 *read* Rs. 1,914-2-0.
VII*b*—Basim—*For* Rs. 26-4-0 *read* Rs. 276-4-0.
VIII*d*—Amraoti—*For* Rs. 66-11-7 *read* Rs. 69-7-7.
Total—*For* Rs. 1,024-15-1 *read* Rs. 1,027-11-1.
IX*a*—Ellichpur—*For* Rs. 2-12-8 *read* Rs. 2-12-0.

B—Establishment.

I*b*—Basim—*For* Rs. 3,737-1-6 *read* Rs. 4,556-14-0.
Total—*For* Rs. 26,654-3-7 *read* Rs. 27,374-0-1.
I*c*—Direction—*For* Rs. nil *read* Rs. 5-2-9.
Total—*For* Rs. 32,714-1-1 *read* Rs. 32,719-3-10.
I*d*—Direction—*For* Rs. 3,428-3-7 *read* Rs. 3,423-0-10.
Total—*For* Rs. 10,391-8-3 *read* Rs. 10,314-5-6.
III*a*—*For* Rs. 55-4-9, 8-12-3, 25-9-3, 13-12-6, 17-1-0, 83-3-3, 40-1-9, 243-12-9 *read* Rs. 131-13-7, 33-6-9, 50-3-4, 37-6-5, 39-6-10, 156-8-4, 64-0-4, 512-13-7.
III*f*—Direction—*For* Rs. 247-2-10 *read* Rs. 284-2-10.
Total—*For* 1,844-15-5 *read* Rs. 1,881-15-5.
Total—*For* Rs. 20,779-4-2, 8,599-12-6, 7,227-1-10, 10,313-0-1, 11,648-0-10, 37,949-1-4, 10,743-0-0, 1,07,259 4-9 *read* Rs. 20,892-13-0, 8,624-7-0, 7,251-11-11, 10,336-10-0 12,390-3-2, 38,022-6-5, 10,766-14-7, 1,08,285-2-1.
Grand Total—*For* Rs. 22,176-4-10, 15,086-13-11, 13,378-14-1, 18,189-9-10, 20,213-14-9, 82,603-0-5, 25,691-3-1, 1,97,339-12-11 *read* Rs. 22,289-13-8, 15,111-8-5, 13,403-8-2, 18,213-3-9, 20,956-1-1, 82,676-5-6, 25,715-1-8, 1,98,365-10-3.

XII.

Form No. 59.

Debtor side.

To IX, Forests—*For* Rs. 5,11,180-3-0 *read* Rs. 5,11,185-3-0.
Sub-Total—*For* Rs. 7,09,972-2-2 *read* 7,09,977-2-2.
To Account Current—*For* Rs. 2,154-12-10 *read* Rs. 3,180-10-2.
To Interdepartmental transfers—*For* Rs. 309-11-5 *read* Rs. 309-12-11.
Sub-Total—*For* Rs. 92,323-7-4 *read* Rs. 93,349 6-2.
Total—*For* Rs. 8,02,295-9-6 *read* Rs. 8,03,326-8-4.

Creditor side.

By 11, Forests—*For* Rs. 1,97,339-12-11 *read* Rs. 1,98,365-10-3.
By Remittances—*For* Rs. 5,11,135-12-8 *read* Rs. 5,11,135-14-2.
Sub-Total—*For* Rs. 7,09,067-0-7 *read* Rs. 7,10,092-15-5.
By Account Current—*For* Rs. 626-0-8 *read* Rs. 631-0-8.
Sub-Total—*For* Rs. 93,228-8-11 *read* Rs. 93,233-8-11
Total—*For* Rs. 8,02,295-9-6 *read* Rs. 8,03,326-8-4.

XIII.

Form No. 60.

Basim—*For* Rs. 54,987-1-6 (thrice) *read* Rs. 54,992-1-6 (thrice).
Total—*For* Rs. 5,11,180-3-0 (thrice) *read* Rs. 5,11,185-3-0 (thrice).

XIV.

Form No. 62.

venue—Receipts—Basim—*For* Rs. 54,987 *read* Rs. 54,992.
r Rs. 5,11,180 *read* Rs. 5,11,185.
enue—Charges—*For* Rs. 14,179 *read* Rs. 14,234.
For Rs. 48,093 *read* Rs. 48,129.
For Rs. 9,267 *read* Rs. 9,278.
For Rs. 9,183 *read* Rs. 9,195.
For Rs. 12,753 *read* Rs. 12,764.
For Rs. 12,163 *read* Rs. 12,654.
For Rs. 16,692 *read* Rs. 16,704.
For Rs. 1,22,330 *read* Rs. 1,22,958.
arges—*For* Rs. 7,997 *read* Rs. 8,056.
For Rs. 34,510 *read* Rs. 34,547.
For Rs. 4,112 *read* Rs. 4,125.
For Rs. 5,904 *read* Rs. 5,917.

For Rs 5,437 *read* Rs. 5,449.
For Rs. 8,051 *read* Rs. 8,302.
For Rs 8,999 *read* Rs. 9.011.
For Rs. 75,010 *read* Rs. 75,407.
Total—Receipts—Basim—*For* Rs. 54,987 *read* Rs. 54,992.
Total—*For* Rs. 5,11,180 *read* Rs. 5,11,185.
Charges—*For* Rs 22,176 *read* Rs 22,290.
For Rs. 82,603 *read* Rs. 82,676.
For Rs. 13,379 *read* Rs. 13,403.
For Rs. 15,087 *read* Rs. 15,112.
For Rs. 18,190 *read* Rs. 18,213.
For Rs. 20,214 *read* Rs. 20,956.
For Rs. 25,691 *read* Rs. 25,715.
For Rs. 1,97,340 *read* Rs. 1,98,365.

XV.

Paragraph 4 *of Commissioner's Review.*

3rd line—*For* Rs. 5,11,180 *read* Rs. 5,11,185, and *for* Rs. 24,071 *read* Rs. 24,076.

XVI.

Paragraph 10 *of Resident's Review.*

2nd line—*For* Rs. 5,11,180, 24,071 *read* Rs. 5,11,185, 24,076.
7th line—*For* Rs. 28,418 *read* Rs. 29,444.
8th line—*For* Rs. 61·3 *read* Rs. 61·2.

B. F. DICKINSON,

Offg. Conservator of Forests,

Hyderabad Assigned Districts.

PROGRESS REPORT OF FOREST ADMINISTRATION IN THE HYDERABAD ASSIGNED DISTRICTS FOR THE YEAR 1891-92.

INTRODUCTION.

1. Mr. F. B. Dickinson held charge of the Circle throughout the year.

2. The Ellichpur Division was under the charge of Mr. G. F. Prevost, Deputy Conservator of Forests, throughout the year. Mr. Ahmed Ali under Mr. Prevost's orders administered the Chikalda Reserve. Mr. Bhukhan, Sub-Assistant Conservator, was employed by the Conservator on special duty relating to the collection of data for the working-plan and the tracing of certain roads which it is proposed to make. A month's privilege leave was granted to him from the 19th June to 20th July, and from the 25th July to the 24th October he held charge of the Wun Division during Mr. Mansukh Rai's absence on privilege leave.

3. The Amraoti Division was under Mr. Extra Assistant Conservator Rasulkhan.

4. The Akola Division was administered by Mr. Haldane.

5. The Basim Division was under Mr. G. F. Taylor until he was re-transferred to the Central Provinces on the 17th August, when he was relieved by Mr. C. Haldane, Extra Assistant Conservator, who thenceforward till the end of the year held charge of Basim Division as well as Akola. Mr. S. Shrinivasalu Naidu, a passed student of the Imperial Forest School, Dehra Dun, was appointed Probationary Sub-Assistant Conservator on the 5th May 1891 and was placed under the orders of the Divisional Officer, Basim.

6. The Wun Division was under the charge of Mr. Mansukh Rai, Extra Assistant Conservator, except for the three months from the 25th July to the 24th October, when he was on privilege leave.

7. The Buldana Division was under the charge of Mr. Taylor [illegible] ion to his own Division until the 20th April, when he was relieved by [illegible] ien-try, Assistant Conservator, who held it for the rest of the [illegible]

8. The Forest Rules for Berar drawn up under the Berar Forest Law of 1886 were not brought out during the year, but as this Report is being written, they are on the eve of being published.

9. The year was again a good one as regards revenue; the gross revenue having been again the largest on record, namely, Rs. 5,11,180, or Rs. 24,071 more than last year, which considerably exceeded that of any previous year.

10. It was also a fairly successful year as regards the protection of the forests from fire, which was in a great measure due to the moral support given by the District Officers.

CHAPTER I.—Areas and Boundaries.

1.—*Areas.*

11. The Berar Forest Law of 1886 not having come into force during the year, the classification laid down by the Forest Rules promulgated in Government of India Notification (Department of Agriculture, Revenue and Commerce) No. 520, dated 25th October 1871, is still adhered to.

The classification under the new rules was completed and is ready for the introduction of the new Law.

12. The following table shows the changes effected in the area of forest lands under the management of the Forest Department :—

Classes of forest.	Area in square miles.				Percentage of Forest area to area of Province (17,718).
	Area on 1st April 1891.	Added during the year.	Excluded or transferred to other classes.	Area on 31st March 1892.	
Demarcated State Forests	1,136	122	2	1,256	7·0
District Reserved Forests ...	1,012	36	43	1,005	5·7
District Unreserved Forests	2,136	121	82	2,175	12·3
Total ...	4,284	279	127	4,436	25·0

13. The area of the Demarcated State Forests was increased by 76,724 acres or 119¾ square miles as follows :—

	Added.	Acres.	
Ellichpur.	Melghat-Chikalda Reserve. ...	17,664	Extended.
	Amraoti-Chirodi Reserve ...	31	Transferred from District Reserves.
Akola.	Bhongaon Reserve ...	21	Transferred from cultivation.
	Ghatbori do. ...	13	Area corrected.
	Mandwa do. ...	10	Do.
	Borgaon do. ...	66	Transferred from cultivation.
	Melghat-Amba Barwa Reserve	26,050*	Extended.
Basim.	Gahuli Reserve	1	Area corrected.
	Kinwat do.	10	Do.
	Medsi do.	1	Do.
	Kelapur do.	4	Do.
	Ghordara do.	3,941	Transferred from Grazing Lands.
	Nidha do.	10,598	Transferred from Unreserved Forests.
Wun.	P[illegible] do.	2,342	Transferred from Grazing Lands.
	[illegible] do	3,433	Do. do.
	... ...	3,934	Transferred from Ramnas and Grazing Lands.
	Dabhdi do. ...	7,788	Transferred from Grazing Lands and Unreserved Forests.
	Umberde do.	1,990	Transferred from Grazing Lands.
		77,897	
Excluded—			
Akola.	Ghatbori Reserve ...	806	Area corrected.
	Borgaon do. ...	40	Given for cultivation.
Basim.	Penganga do. ...	321	Area corrected.
	Rui do. ...	6	Do.
		1,173	

It will be seen that the largest inclusions have been made in the Melghat Taluk and the Wun District.

The area of the Reserves in the Melghat Taluk according to the Forest Survey cannot be taken until these areas have been notified in *Residency Orders*. The old areas are therefore retained.

* Note—Of this area 21,284 acres belong to the Melghat taluk and 4,766 acres to Jalgaon taluk.

14. In the District Reserves, 18,598 acres were added, and 23,373 acres excluded, or on the whole 4,775 acres excluded. The details are as follows :—

Added—

	Acres.
Reconciliation of figures in the Forest and Revenue Reports of Wun District	18,597
Correction of area in Amraoti District	1
	18,598

Excluded—

	Acres.
Reconciliation of figures in the Forest and Revenue Reports of Wun District	46
Transferred to Demarcated State Forests in Wun District ...	23,161
Transferred to cultivation in Akola District	22
Correction of area in Akola District	5
Transferred to Demarcated State Forests in Amraoti District ...	31
Given up for the Kalapani Tank in Amraoti District ...	7
Given up for village purposes in Amraoti District... ...	3
Correction of area in Amraoti District...	98
	23,373

15. The changes in the District Unreserved Forests were 48,013 acres added and 22,902 acres excluded, or on the whole 25,111 acres added.

The details are as follows :—

Added—

	Acres.
Block Numbers available for cultivation in Wun District ...	45,453
Cultivation resumed in Akola District	12
Cultivation resumed and abandoned in Buldana District ...	2,014
Cultivation abandoned in Basim District	506
Correction of area in Basim District	15
Cultivation abandoned in Amraoti District	13
	48,013

Excluded—

Transferred to Demarcated State Forests in Wun District ...	10,865
Given up for cultivation in Akola District	1,168
Correction of area in Akola District	1
Correction of area in Basim District	54
Area given back to Jagirdar in Basim District	131
Area set apart for village purposes in Amraoti District, wrongly shown under Forests in previous reports	10,683
	22,902

Thus the total is more by 97,060 acres or 151 square miles.

16. The following areas were transferred for administrative purposes from the charge of the Buldana and Ellichpur Divisional Officers to that of the Akola Divisional Officer :—

1. From Buldana 29,035 acres of District Reserved and Unreserved Forests in Mehkar Taluk.

2. From Ellichpur 21,284 acres comprising the new extension of the Amba Barwa Reserve.

The former contains much teak coppice, and is situated within the neighbourhood of Iswi, which is the head-quarters of the Ranger of the Ghatbori Reserve (a subordinate of the Akola Divisional Officer), who can thus be made available for the care of these teak coppice lands.

The latter, the Amba Barwa Reserve, is situated in the south-west corner of the Melghat, and a considerable distance from the Ellichpur head-quarters, whereas it is within easy distance of Akola.

On the other hand, the following areas have been transferred from the Akola Division to Basim, as they can be conveniently worked as one Working-circle with the Chandas and Medsi Reserves :—

	Acres.
Andharsaongi block of Ghatbori Reserve	2,622
Charmuli and Pacharan Coppice Lands	4,357

17. Additions were proposed to the Kinwat, Penganga and Kelapur Reserves, by which some good forest lands will be acquired, and the boundaries will be much improved. Owing to the general poverty of the forests in South Berar, it is highly advisable that a considerably larger area of land should be set apart with the view of its ultimately producing timber.

18. In the Melghat taluk now that arrangements have been made for working out the diseased and malformed trees from the reserves, neither the Korkus nor the general public would feel the hardship of increasing the reserves as these fellings give work to the former and timber to the latter; it has therefore been proposed during the year to add certain tracts adjoining the Bairagarh and Gugamal Reserves, such as the tract to the south of the Gugamal Reserve including the Khatkali or Pathar Nadi valley and the Bethet Khora ; the tract to the north-east of Biba ; and the tract in the south-west of the Katkumb pargana including Gana and parts of neighbouring villages. Unfortunately the late Deputy Commissioner of Ellichpur reserved his opinion on the proposals.

There is also a good tract of forest situated to the north of Bhandum and Dakna which ought to be included in the Gugamal Reserve.

In the Morsi taluk some promising hilly tracts about Shaikdari, Mehedari and Hiwarkheir were examined by the Conservator, and proposals for reserving and working them were discussed with the Deputy Commissioner.

2.—*Boundaries.*

19. The boundaries of all the old *Demarcated State Forests* were cleared of shoots and brushwood. They are marked with a cleared line not less than 40 feet broad.

The Melghat Reserves and those of Chirodi and Gerumatergaon are further marked with within-view substantial stone pillars 5 feet high and 8 to 10 feet in diameter at the base, built round a teak post which projects about 2 feet from the top and carries the serial number of the mark.

In the other districts, they are marked by the Warlis set up by the Revenue Survey.

20. In the Ellichpur Division, 12 boundary marks of the Bairagarh Reserve were repaired at a cost of Rs. 12.

In the Gugamal Reserve, 38 boundary marks were repaired at a cost of Rs. 43.

The new Chikalda Reserve was demarcated by 71 boundary marks, similar to those of Bairagarh, at a cost of Rs. 250.

21. *Amraoti Division.*—In the Chirodi Reserve, 30 boundary marks were replaced at a cost of Rs. 75.

The remaining marks are in need of repairs and should be taken in hand in 1892-93.

The boundary marks of the Mehdari Reserve were in good order and required no repairs.

22. *Akola Division.*—The Ambabarwa Reserve new extension was demarcated at a cost of Rs. 177.

The following field marks or Warlis were repaired:—

153	in the	Bhongaon	Reserve	at a cost of	Rs. 11.
105	do.	Loni	do.	do.	Rs. 7.
112	do.	Borgaon	do.	do.	Rs. 22.

23. The demarcation of the new extension of the Kinwat Reserve was commenced, but was not completed, because proposals were in the meantime made for the further extension of the forest.

The present boundary on the west runs along an irregular line of hills; the western slopes and land at the base of these hills contain good forest, and as also a line taken below the hills would be much easier to fire-trace than the one on the ridge, it would be advantageous to include this tract.

24. *Wun Division.*—The following new Reserves were demarcated by 40' lines:—

Bhiwakund	at a cost of	Rs. 21
Ghordara	do.	81
Nidha	do.	149
Ramnas	do.	248

There are still 11 Ramnas remaining to be demarcated.

The demarcation of the new Reserves of Dabhdi, Phiski, Pownar, and Umbarde could not be effected during the year owing to want of establishment.

25. *Grazing lands.*—Owing to want of funds, the repairs to boundary marks of grazing lands had to a great extent to be left over.

The following shows the work carried out:—

Amraoti	Division,	3,693	Warlis	at a cost of	Rs. 346
Akola	do.	2,078	do.	do.	267
Buldana	do.	5,854	do.	do.	36

Working-plans are being drawn up for each taluk for carrying out these repairs systematically. These lay down the order in which the repairs will be made in each group of villages. It is proposed to work on a rotation of 4 years tentatively.

It is perhaps to be regretted that the patels were not made responsible for these repairs, some small compensation being given in consideration of the service thus rendered, but failing this the plan above sketched recommends itself to the Conservator as the only practicable one to ensure the work being properly done.

CHAPTER II.—Surveys, Working-Plans and Plans of Operations.

26. The following extract from the Progress Report of the Superintendent of Forest Surveys for the year ending 30th September 1891 shows the work done in connection with the Melghat Survey:—

"*Berar.*

"65. The provincial boundary between Berar and the Central Provinces, touching on the Nimar District, was finally demarcated by the local authorities with permanent pillars, and was mapped by the Forest Survey Branch during the year under report.

Provincial boundary.

"66. The amount expended during the year on account of Berar was Rs. 1,816, which was chiefly on account of mapping and printing and publishing of standard sheets.

Expenditure.

"*Map Drawing.*

"67. The standard sheets of the Melghat Survey on the scale of 4″= 1 mile have been published, and 10 of the 4″ sheets were reproduced on the 2″ scale. This completes the Melghat series of maps."

Berar.

27. All the sheets of the survey have now been reeceived, including those on the 2" scale mentioned in paragraph 21 of last year's report, as required in order to have a complete set for the Reserves on a uniform scale.

28. The sanction of the Inspector-General of Forests was obtained to have six sets of the Bairagarh and Gugamal maps marked with the compartments into which these Reserves have been divided for the purpose of the Working-Plan.

2.—Working-Plans.

29. The work of describing the compartments of the Bairagarh and Gugamal forests was continued during the year, and was nearly completed at its close. It will now be possible to complete the Working-Plan of these Reserves.

The Bairagarh forest has been divided into three Working Circles, namely, the Sembadoh, Chaorakund and Hatru Working Circles. The former is divided into 28 compartments and the two latter into 30 compartments each. Gugamal form one Working Circle, divided into 30 compartments.

During the year improvement fellings were carried on in one of the compartments in each Working Circle of Bairagarh.

30. The outline of a plan for the Penganga Reserve in Basim was submitted to the Inspector-General of Forests. The complete plan is now in the press.

An out plan for the Kinwat was also submitted to the Inspector-General of Forests and received his approval.

The [illegible] drawn up by Mr. Taylor for Medsi is under abeyance, because it has been decided to join Chandas, Andarsaongi and the coppice lands of Pacheran and Charmuli with Medsi in one Working Circle.

31. The outline plan for the Pathrot Reserve in the Wun Division was submitted to the Inspector-General of Forests and received his approval with certain modifications.

Working-Plans were drawn up for working the timber on the grazing lands in the Yeotmal, Wun and Panderkowra Taluks of the Wun District.

32. The scheme for the working the Amraoti hills forests sketched in paragraph 25 of last year's report was adhered to, but it was found that some of the outlying grazing tracts will have to be eliminated from the Working Circle, as being too poorly covered or because they support such a large number of cattle as to make it practically impossible to close them to grazing.

The matter will require further consideration. In the meanwhile, the Ramnas measuring 7,000 acres included in the tract are closed to all cutting of wood instead of, as formerly, being leased for cuting of firewood. The fue

supply of the town of Amraoti is bound up with the question of the Working-Plan of the tract, and the only solution of it appears to the Conservator to be the raising of plantations of babul in the Chirodi Reserve, where there is much land suitable for this purpose.

It is to be regretted that data have not been collected by the Amraoti Divisional Forest Officer for a Working-Plan of the Babul-Bans in his Division. The Babul-Bans in that Division bring in a revenue of about Rs. 18,000 per annum, and their produce is of great value to the public in the growing scarcity of fuel. It is therefore of importance that their working should be put on a proper footing.

33. In *Buldana*, rough Working-Plans for the grazing lands of three taluks were prepared, as also for the Babul-Bans which are of small extent in that Division.

34. In *Akola*, a Working-Plan of the Bhongaon and Loni Reserves and other Babul-Bans was drawn up by the Divisional Officer, and has been approved by the Inspector-General of Forests.

35. In *Basim*, a rough scheme for regulating annual fellings on grazing lands in the Basim Taluk on the coppice *regime*, with a liberal reservation of standards, was drawn up and set working. Data are being collected for similar schemes in the other two taluks.

36. The whole of the forest work of the circle was as usual carried out in accordance with Plans of Operations drawn up by the Divisional Officers in consultation with the Deputy Commissioners and approved by the Conservator.

CHAPTER III.—Protection and Improvement.

1.—*Establishment.*

37. Mr. G. F. Prevost was promoted to officiate in the 2nd grade of Deputy Conservator from the 12th April 1891.

Mr. J. Ballantine (Conservator of Forests, Hyderabad, *seconded*,) was promoted to 3rd grade of Deputy Conservator from the 22nd March 1891.

Mr. E. M. Coventry was promoted to 2nd grade Assistant Conservator from the 26th February 1891.

Mr. G. F. Taylor was transferred to the Central Provinces from [illegible]h August 1891.

38. In the Lower Control service the following promotions were made :—

Mr. Mansukh Rai	from Rs.	200	to Rs.	250.
,, Ahmed Alli	,,	150	,,	200.
,, Haldane	,,	150	,,	200.
,, Bhukhan	,,	120	,,	150.

These promotions were made prior to the introduction of the new reorganization of the Department. Further changes have been proposed in accordance with the new scale.

Messrs. Mansukh Rai and Bhukhan were on three months' and one month's privilege leave respectively.

39. The sixth Extra Assistant Conservatorship referred to in paragraph 29 of last year's report was filled up by the appointment of Mr. S. Shrinivasalu Naidu on Rs. 100 on probation. This officer was a student of the Imperial Forest School, Dehra Dun, and passed the final examination in March 1891.

40. A new scale of Executive and Protective Establishment was drawn up in accordance with Government of India Circular No. 2-F, dated 28th January 1891.

It is hoped that this new scale will be soon sanctioned, as work has increased all round, and more officers in these branches are wanted, especially in Ellichpur, Wun, Akola and Basim. Our difficulties were increased this year by the regretted death from fever of a promising young Ranger, Israrul Huq, just after he had been trained to the work of conducting improvement fellings.

The Resident sanctioned two scholarships for students to study at the Forest School, Dehra Dun. Probably one of these will be allotted for the coming course.

41. During the year 19 karkuns were sanctioned and appointed, one for each tahsili in the Circle, excepting those in Ellichpur. Their duties are to keep the forest accounts and correspondence in the tahsilis under the orders of the Tahsildars. By this means the Taluk Foresters are relieved of all office work and have more time for travelling over their charges.

42. Six nakas or stations for collecting forest revenue were established in the Wun District as an experimental measure, one at each of the following towns, Yeotmal, Darwa, Digras, Ner, Pandarkaora and Wun, with an establishment of a karkun on Rs. 12 and a guard on Rs. 8 for each naka. They are reported to be working on the whole satisfactorily, and it will probably be found advisable to establish them permanently.

2.—*General Protection and Breaches of the Forest Law.*

43. The following statement shows the offences against the Forest Law under main heads compared with the previous year :—

Particulars of case.	Number.		Increase.	Decrease.
	1890-91.	1891-92.	In 1891-92.	
1. Injury to the forests by fire	6	10	4	...
2. Unauthorized felling or appropriation of wood and other minor produce...	251	281	30	...
3. Grazing without permission	20	20	...	...
4. Other offences	139	62	...	77
Total...	416	373	34	77
Undetected cases...	(a) 19	61	...	...

(a). Not recorded in most districts.

44. Statement in Form 50 does not show any compounded cases, Divisional Officers not having power to compound under the old Rules.

All Divisions except Ellichpur have sent in returns of undetected cases. It is to be regretted that Ellichpur has not given effect to the instructions issued in this connection.

45. The total number of offences prosecuted was 373 against 416 in the previous year; of these convictions were obtained in 314 cases.

Sixty-three cases were acquitted and 23 were pending at the close of the year. Leaving out the pending cases, the percentage of convictions was 83·3 as against 84·7 last year.

The percentages of convictions in each district are as follows:—

Ellichpur	91·3
Amraoti	87·3
Akola	84·2
Buldana	77·5
Basim	76·5
Wun	74·5

46. The low percentage of convictions in Basim and Wun, coupled with a considerable decrease of cases in both of these Divisions, appears to show weak administration. But it is partly explained in Wun by the fact of Magistrates finding that they could not convict people for grazing cattle in Ramnas.

Under the old Law there was no punishment for trespass in Ramnas, they not being Demarcated State Forests. This defect is remedied by the Rules under the new Law.

In Basim the large taluk of Pusad, which is divided into two Foresters' circles, was owing to various causes for a considerable portion of the year under one Forester.

The detection and successful prosecution of cases is also rendered more difficult in both these Divisions by the presence of izara villages whose rights over the timber in their villages are at present ill-defined.

47. In *Demarcated State Forests* the cases tried were 75 as against 55 in the previous year, the increase being chiefly in the Bairagarh Forest in Ellichpur Division, where there were 21 cases as against five in the previous year. This is due to the opening of fellings and consequent influx of traders and others into the Reserve.

The percentage of convictions for Demarcated State Forests was 85·3 as against 85·4 last year.

It is unsatisfactory to note that all the cases of injury to forest from fire in Wun were undetected. On the other hand in Akola out of four such offences only one was undetected, and convictions were obtained in the other three, and in Basim five cases of this nature were prosecuted.

48. In District and Unreserved Forests, there were 302 completed cases against 338 in the previous year, and 250 convictions against 286. There were thus fewer cases and a smaller percentage, namely, 82·7 as against 84·6 per cent. This falling-off is as above stated partly due to defects in the old Law which were brought to light during the year. Previously such cases had apparently been tried and settled on general principles. But now that the new Law is in force, and the Taluk Foresters have been relieved of nearly all office work by the appointment of Tahsili Karkuns, better results will be expected from them.

3.—*Forest Fires.*

49. The result of protection from fire during the year compared with those of the previous year, are given below:—

Division.	Year.	Area attempted.	Results.		Estimate cost per square mile of area attempted.
			Successfully protected.	Failures.	
		Acres.	Acres.	Acres.	Rs. a.
Ellichpur	1891	389,493	389,391	102	4 10
	1892	407,157	406,927	230	4 8
Amraoti	1891	12,198	5,075	7,123	15 8
	1892	12,229	12,227	2	21 14
Akola	1891	32,946	32,510	436	13 10
	1892	32,210	32,045	165	15 12
Buldana	1891	60,124	58,943	1,181	3 13
	1892	60,124	60,108	16	4 2
Basim	1891	119,699	119,206	493	7 15
	1892	119,383	118,512	871	6 11
Wun	1891	96,836	89,165	7,671	14 15
	1892	96,840	90,371	6,469	13 12
Total ...	1891	711,296	694,290	17,006	7 2
	1892	727,943	720,190	753	6 13
Difference in favor or against the year ...		+ 16,647	+ 25,700	— 9,253	— 0 5

50. The increase in the area attempted was due to the protection of the new extension of the Chikalda Reserve with an area of 17,664 acres, and to small corrections of areas in other Reserves.

51. Out of a total area of 727,943 acres attempted, 720,190 were successfully protected, showing a percentage of success of 93·9 as against 97·6 last year.

52. The cost of protection was Rs. 6-13-0 per square mile as compared with Rs. 7-2-0 last year. There was a considerable increase in Amraoti owing to the perimeter lines having been thoroughly fire-traced, which was not the case in former years, but the reason for the cost being so much heavier in this district than in other districts where conditions are similar is not apparent, and will require investigation. It is satisfactory to find that in the Wun Division, in spite of extra inner paths having been made to the perimeter lines at extra cost, the total expenditure is less by Rs. 170 than in the previous year, which shows good management on Mr. Mansukh Rai's part and that of his staff.

53. The failures in Ellichpur, Amraoti, Akola and Buldana were due either to accidents in burning the lines or carelessness on the part of travellers.

In some instances members of the staff were convicted of carelessness, as for instance when one of the guards of the Maudwa block of the Ghatbori Reserve was found to have burnt his line uphill instead of downhill. In another instance a guard in Gugamal, contrary to all orders, set fire to patches of unburnt grass on the line in the middle of the day.

In the Penganga forest in Basim Division two small fires were started whilst burning the lines.

A third crossed the line from an adjoining field, the owner of which was burning a line round a hay stack. The offenders were punished.

A fourth, burning 65 acres, was due to the carelessness of a wayfarer who dropped some burning embers from his pipe. He was likewise punished.

A fifth, burning 742 acres, is attributed to incendiarism. A person was prosecuted, but let off for want of evidence.

54. The Wun Division again figures as the worst in respect of failures and for the same reasons as given last year. The establishment did their best, and it is at any rate satisfactory that the results are better than in the previous years.

The worst failures occurred, as last year, in the Gondwakri Reserve, which is surrounded by izara villages. The first fire occurred on the 24th April and burnt [illegible] acres, and the second on the 28th May burning 700 acres.

Both these are attributed to malice, and the enquiries, both of the Divisional Officer and the Deputy Commissioner, could find no other explanation for them. The fact that this Reserve is fired year by year points to malice, and leads the Divisional Officer to the conclusion that the only way to stop it is by placing punitive police on the surrounding izara villages. The Deputy Commissioner, however, does not support the proposal, on the grounds that there is no proof that the residents of those villages set fire to the Reserve. To this, the question may be asked, what other persons could have done it and persist in doing it every year? It is evident that the inhabitants of those villages are setting themselves against the Government in this matter, and the plan suggested by the Divisional Officer appears to be the proper one to bring them to their senses.

Barring these large failures in the Gondwakri Reserve, the other fires, chiefly due to accidents, were of small extent, being promptly extinguished. As regards one fire in the Khorad Reserve, supposed to have been lighted by an incendiary, the staff was so prompt as to have been able to extinguish it before it had covered more than 30 acres, which speaks well for their willingness and readiness, and that of the neighbouring villagers, showing what can be done when the latter give their aid willingly. It will not be till the izaradars are made to see that they are as much responsible as khalsa patels for the safety of the forests that there will be any chance of these fires ceasing. They at present appear to be puffed up with pride at their fortunate position in having the proprietory leases of their villages and to think that they have no duties to perform in lieu of these concessions like other patels.

4.—*Grazing and Fencing.*

55. As a special case owing to the prolonged dry season and on the urgent representation of the Deputy Commissioners, grazing was permitted to a limited extent on payment of double fees in most of the Demarcated State Forests in the Wun Division, as also in parts of the Chandas and Penganga Reserves in Basim. The number of cattle was limited to one head to every four acres, and was only permitted for three months in Wun and two months in Basim.

It is reported from Wun that this limited grazing had no appreciable effect beyond making the growth of grass thinner, except in a portion of Gondwakri which had been burnt by jungle fire. This portion the Conservator visited and found the soil much beaten down and young tree growth a good deal injured by trampling and browsing, but in the other Reserves visited by him, where the special grazing had been allowed, no substantial injury was noticed. The Wun Divisional Officer apprehends, however, that in the Khorad Reserve the grass has been so much thinned as to appreciably diminish receipts from fodder grass in the hot weather of 1892.

On the other hand there is no doubt that the temporary opening of the Reserves was a great boon to the people and saved many cattle.

56. As usual the Demarcated State Forests in the Buldana Division, namely, those of Gerumatergaon and Amdari, were opened to grazing from the commencement of the monsoon till the 31st October. No limit was placed on the number allowed in, and some portions of these Reserves were very heavily grazed, especially those in the valleys.

57. During the year a grazing rotation has been decided on for these Reserves. For this purpose the Gerumatergaon Reserve is divided into 15 blocks, and the Amdari Reserve into 10 blocks. In the former three blocks and in the latter two blocks will be closed to grazing for five years, so that one-fifth of each forest will always be closed.

Then by refusing to allow the privilege of grazing to any but the surrounding villagers, the grazing will be brought into more manageable limits, for it was found that it had been the practice to allow in considerable herds of Banjaras' cattle; these will in future be as much as possible eliminated.

58. In the new extension of the Kinwat forest cattle were allowed to graze as usual, but the Banjaras and others from a distance were all warned [illegible] would have to find other grazing grounds in future.

59. In the Babul-Ban Reserves of Loni and Bhongaon grazing was permitted in those portions where the stock is high enough to be beyond the reach of cattle.

60. During his inspection of the Amraoti hills grazing tract, the Conservator noted that all the surrounding villagers have taken advantage of the tract to breed cattle, and are now in possession of large herds much beyond their agricultural requirements. The tract is therefore much over-grazed. The fees charged for grazing in the tract are the same as in all other grazing lands in Berar, outside the Melghat. Now, considering its situation, surrounded as it is by populous country, and its easy accessibility, it appears to the Conservator that the mere nominal fee of two annas a head now levied ought to be considerably raised. As a matter of fact one rupee per head would be none too much, taking into account the advantages the position of the tract affords.

It would probably not be politic to raise the fees to such a level all at once, but the question of differentiation of grazing fees requires consideration. It is clearly not common sense to levy the same low fees in a healthy, populous district like Amraoti as in the dreaded jungles of Wun.

61. In this matter of grazing fees the Conservator noticed another anomaly In the Melghat only half the fees charged in the plains are levied, *or one anna*

per annum per head of cow or bullock. Now in the neighbouring hilly district of Betul, quite as difficult of access as our Melghat, the fees charged range from three to four annas, generally three annas.

Even in the very accessible tract called the Bairam grazing tract in the Ellichpur taluk the extremely low Melghat rates obtain.

5.—*Natural Reproduction.*

62. Reproduction in the Melghat Reserves is satisfactory ; small blanks are rapidly filling up, and the large blanks are being broken up and are yearly diminishing in size.

The coppice in improvement fellings is also satisfactory. In Sembadoh, the percentage of successful coppice was 56·44 and in Chaorakund 73·83. In the former a number of trees felled were too old and feeble to coppice.

63. *Amraoti Division.*—In Chirodi Reserve, owing to poverty and want of depth of the soil, reproduction is unsatisfactory, but the ravines, where the soil is fairly good, are gradually filling up. The failure of fire protection in the previous year undid the progress of several years.

In the Mehdari Reserve the depth and looseness of soil is much more favourable to forest growth, and the hill sides in this little Reservie are rapidly covering themselves.

64. *Akola.*—In the Ghatbori Reserve reproduction is scanty except in the ravines and some of the valleys. Some of these in the Wagdeo block and the Sitanarnia valley and Hathipaon ravine in the Rajgad block are filling up satisfactorily, and contain many young seedlings.

65. In Buldana, reproduction is poor owing to poverty of soil and grazing. It is only on steep ravine sides, where cattle cannot conveniently graze, that the conditions of successful reproduction are found. Occasionally elsewhere seedlings are seen under bushes of *acacia catechu* and *zizyphus* and pushing their way through their tops.

Hardwickia pinnata seedlings come up year after year in the Gerumatergaon Reserve as well as the neighbouring open forests, but for the most part are trampled down or scorched by the sun.

66. *Wasim Division.*—In the Kinwat forest reproduction is fairly good on the slopes [illegible] hills, and on many parts of the flat plateau. It is also good in portions of the valley along the Penganga river on the north-east and north.

In the other Reserves it is poor, except in the ravines and valleys which are certainly thickening up.

67. *Wun Division.*—In the Tipeshwar block of Kelapur Reserve the growth of bamboo is very noticeable, some of the hill sides, especially those with a northern aspect, are becoming densely covered with bamboo forest ; other reproduction is also showing up here and there. In the Keroni block it is scanty in the eastern portion, but fairly good in the western, which contains a good deal of teak.

The Anjankheir Reserve is reported to show a marked improvement.

In Pathrot the reproduction of *terminalia tomentosa*, *anogeissus* and *acacia catechu* is generally good, and the forest is gradually filling up with these species, but teak is generally absent. This is partly due to the absence of healthy seed bearers.

68. A notable feature of the year is the scarcity of bamboo flowering clumps and the fact that those which flowered failed to ripen the seed which remained abortive.

It was generally a poor seeding year for forest trees, especially *hardwickia* and teak

6.—Artificial Reproduction and Cultural Operations.

69. The details of these works are shown in form No. 52, which has been prepared as far as possible with the actual state of things.

70. The Ellichpur Divisional Officer submitted a report on the teak plantation in the Bairagarh Reserve, which shows that out of 1,409 acres formerly shown as stocked 754 acres should be struck off the list as they are now blank; the remaining 655 acres are fairly well stocked, containing from 200 to 400 trees per acre. Of the area stated to be blank 560 acres belong to one plantation, that of Jambulwari, an open valley very subject to frost, where the operations were particularly unsuccessful.

A small quantity of *terminalia chebula* seed was distributed to patels in the Melghat to sow near their villages, but all are reported to have failed to germinate. As *chebula* seed does not germinate easily and seedlings are very scarce in the forests, it will be well to continue experiments in this line.

71. *Amraoti.*—The bamboo nursery in the Chirodi Reserve was maintained.

Towards the end of the monsoon 1,300 plants were lifted and planted out on the banks of the Chirodi nalla below the fort. They are reported to be growing well, as are also the bamboo clumps round the fort.

The little Yeota plantation is reported to be doing well.

72. *Akola.*—In 57 acres of Rajgad block 4,384 patches under shade of bushes were dug, in each of which 12 germinated teak seed were sown and loosely covered with dead grass to keep off the sun's rays and retain moisture in the soil. Many seedlings died off, but a fair proportion of healthy seedlings were to be seen in the cold weather. It is reported that many have died since, but we must wait till next cold weather to see the true results.

A small nursery, 30′ × 30′ was formed in March in the Mandwa Reserve, half of which was sown with Burma teak seed and half with local teak seed. The former germinated in a fortnight, but the latter had shown no signs of coming up a month after sowing. In the adjoining forest 10,875 patches have been made in 78 acres under shade of small trees and shrubs ready to receive the nursery plants at the commencement of the rains.

In the Loni Babul-Ban Reserve the area sown broadcast in 1890 that partially failed was resown in plough furrows two feet apart with much better results. The 25 acres of this Reserve and 50 acres of Bhongaon exploited in 1890 were sown broadcast with *telia babul* with fairly good results. In the latter the seed germinated in patches owing to the unevenness of the ground.

73. *Buldana.*—In the Borkheri block of the Gerumatergaon Reserve seeds of neem, babul, tamarind and *terminalia tomentosa* were sown in furrows 5 feet apart. They came up, but were killed by the heat of the sun. In the same block teak seed was sown in a small worked-up plot, with the intention of putting out the seedlings as they germinated in the surrounding forest under shade, but the instructions in this respect were not carried out.

In Amdari Reserve 20 seers of teak seed were sown in patches in the Nalkund and Kurah blocks under shade of bushes, but too late in the season. Probably some of it will germinate in the coming monsoon.

74. *Basim.*—A nursery of *bambusa arundinacea* and *hardwickia* seed was formed; only a portion of the seed came up. The seedlings were pricked out into beds covering an acre of ground and have been brought through the dry weather successfully and economically. Considering the difficulty experienced in obtaining sufficient water for them, the success is creditable to the officers concerned.

The seed sown under shade of bushes in the Satermal block in the monsoon of 1890 and reported in last year's report, *vide* paragraph 60, to have failed, was found on examination to have come up here and there. It was estimated, at an examination of them which the Conservator made, that about 10 per cent. of the patches had plants and those at Korat in the Kinwat Reserve had about 18 per cent. of success. It appeared that the Palas bushes had the most successes.

75. *Wun.*—At Andhrawadi in the Tipeshwar block of the Kelapur Reserve about 100 acres were sown in patches with teak under the shade of *acacia zizyphus* bushes. The seed germinated, but it remains to be seen what proportion of them got through the hot weather.

In Raghapur adjoining, which had been previously ploughed at 10 feet apart, was again ploughed in a similar way, and teak and *hardwickia* seed sown in the lines. Both germinated freely, and a good many seedlings are reported to be living. Several seedlings of one and two years old are to be seen in this place. The locality is, however, rather swampy, and carries too much grass for successful reproduction.

7.—*Cutting of Creepers.*

76. In the Melghat Reserves, where creepers do considerable damage to trees, Rs. 513 was spent in cutting them in the improvement fellings in Bairagarh. In Gugamal Rs. 119 were spent in the same work. The Bauhinia creeper proves to be most irrepressible. Very often the worst of bad treatment fails to kill it or diminish its luxuriant growth. Coppice shoots of this species, which were scarcely six months old, were seen fully twenty feet long. The only thing which will permanently suppress it will be complete forest cover.

8.—*Experiments and Exotics.*

77. There is nothing new to report under this head.

The date plantations at Ellichpur are reported to be doing well. They were manured and watered more frequently during the year than previously.

One thousand date seeds were sown along the Chirodi nalla, from which there are at present some 150 seedlings from 6 to 12 inches high.

9.—*Communications and Buildings.*

(*a*)—*Communications.*

78. The works executed under this head both in the Forest Department and the Public Works Department are shown in detail in Appendices B (1) and C.

79. The Forest Department constructed 31½ miles of road at a cost of Rs. 9,358, including the Kuapati-Mangia road, 6½ miles at a cost of Rs. 1,450, running between the coupes of 1892 and 1893; the Malur-Dasipati road, 7 miles at a cost of Rs. 2,682, opening up the south-west portion of the Chaorakund Working Circle and bringing the Chaorakund fellings into connection with the Akote-Selu road; the Hatru-Butram road, 8 miles, Rs. 1,604, which completes the circuit of Bairagarh forest, so that carts can now go all round without a break, and also opens up the Butram bamboo forests to the Hatru people; completion of the Kund-Sakri road commenced last year, 2 miles, costing Rs. 1,338; the Rangrao Churni-Koha road, 5 miles, Rs.1,827, which completes the connection between the Bairagarh system and the Akote-Selu road; and Chunkari-Kharimal road, 3 miles, Rs. 457, bringing the large village of Kharimal into connection with the roads and facilitating the extraction of bamboos from that quarter.

80. A trace was made for a road with a ruling gradient of 1 in 25 from Gattang to Dolar, passing through a corner of the Central Provinces, which, if made, will bring the north-eastern portion of Bairagarh 10 miles nearer the market by a comparatively easy road, and will greatly facilitate the extraction of timber and bamboos from that side. It will also give a very short road into the Katkumb pargana and to the interior of Betul, as it would be easy to make a branch road from Kukru *via* Khamla to Katkumb and thence on to Mhaisde in Betul.

It is also a matter of consideration whether the Khamla plateau would not be a good place for a sanitarium for the troops stationed at Kamptee. In that respect it has several advantages over Chikalda. It is equally high; a much more extensive plateau; it is in British territory; and would only be 23 miles by road from Ellichpur as against 30.

81. Traces have also been made for a road from Koha to Banam to open up the bamboo forest in the south-east of Gugamal forest, and from Gokriam above Belkund to Chipi to open up the Gargipatti valley.

82. During the year the Public Works Department completed the Akote-Selu road, and it was opened throughout to traffic in December. It has already increased the output of bamboos from Gugamal Forest.

83. The repairs to Forest Department roads in the Reserves cost Rs. 3,319 on a mileage of 197 miles or Rs. 16-13-6 per mile. This was Rs. 4-3-6 per mile more than in the previous year, which is due to widening and improving portions of the Chikalda-Bairat road and to fixing iron drains at crossings in the Makla-Chunkhari Ghat.

The repairs of the Dasipati-Kalamkhar road were also taken in hand by the Forest Department. This road was formerly kept up from Local Funds. On the representation of the Deputy Commissioner that no money was available, and the road being of importance to the Forest Department, that Department undertook the repairs.

The road is about 15 miles long and the repairs cost Rs. 297.

Rupees 169 were spent on laying out the trace of the Gattang-Dolar road.

84. The road work in other Divisions consisted of petty repairs to existing cart tracks.

(b)—Buildings.

85. The works executed under this head in Ellichpur, Amraoti, and Wun Divisions are detailed in appendices B (2), ($\frac{2}{1}$), ($\frac{2}{2}$) and ($\frac{2}{3}$).

86. In the Melghat a Forester's thana was built at Chikalda at a cost of Rs. 100.

87. In Chirodi Reserve two thanas were built at Wadali and Bhankheda at a cost of Rs. 50 each.

88. In the Wun Division a naka was built at Yeotmal, and two rest-house s one at Pardi near the Khorad Reserve and one at Mangi-Sawargaon near the Kelapur Reserve, were partly built.

89. Two thanas were built at Sondabhi in the Kinwat Reserve in Basim at a cost of Rs. 100.

90. In Akola a rest-house was built at the Bhongaon Reserve at a cost of Rs. 783.

At Sonala a thana was built for the Borgaon Reserve Guard at a cost of Rs. 50.

91. To render the Melghat rest-houses more useful they were partially furnished during the year. Rules for their use by unofficial travellers were drawn out, and a set put up in each rest-house.

(c)—Wells.

92. No new pucka wells were made in the Melghat. The masonry wells made of late years have been of great value and have done much to reduce the sick-rate amongst the Reserve establishment and work-people in the forests in that Division.

93. Every year, as the forests in the Melghat have become more and more opened out by roads, the traffic has increased, especially since the opening of the three improvement fellings, and now the number of men and draught cattle constantly in the forest is so great that the water-supply is inadequate. Formerly the village and Forest Department wells sufficed, but it has become evident that it will now be necessary to supplement this supply at the larger centres, such as Makla, Raipur, and Rangrao Churni, and this can only be done efficiently by constructing substantial reservoirs. Proposals have lately been made in this connection.

CHAPTER IV.—Yield and Working.

94. No timber was removed by Government agency.

95. The following three statements compare the outturn of timber, fuel and bamboos for the present and the previous year :—

1.—*Timber.*

Division or District.	Demarcated State Forests.		District Reserved and Unreserved Forests.		Difference in favour of, or against the year.	
	1891-92.	1890-91.	1891-92.	1890-91.	Demarcated State Forests.	District Reserved and Unreserved Forests.
	C. ft.	C. ft.	C. ft.	C. ft.	C. ft.	C. ft.
Ellichpur ...	132,981 (Rs. 47,656)	93,937 (Rs. 29,911)	321,163 (Rs. 69,803)	409,262 (Rs. 92,846)	+ 39,044 + (Rs. 17,745)	— 88,099 — (Rs. 23,043)
Amraoti ...	... ...	... ...	367 (Rs. 73)	310 (Rs. 123)	... ...	+ 57 — (Rs. 50)
Akola ...	602 (Rs. 86)	259 (Rs. 37)	11,588 (Rs. 4,245)	6,420 (Rs. 1,176)	+ 343 + (Rs. 49)	+ 5,168 + (Rs. 3,069)
Buldana ...	581 (Rs. 124)	315 (Rs. 67)	66,875 (Rs. 9,989)	114,647 (Rs. 17,798)	+ 266 + (Rs. 57)	— 47,772 — (Rs. 7,809)
Basim ...	6,328 (Rs. 1,745)	1,854 (Rs. 1,403)	64,845 (Rs. 19,502)	58,917 (Rs. 13,776)	+ 4,474 + (Rs. 342)	+ 5,928 + (Rs. 5,726)
Wun ...	80 (Rs. 14)	579 (Rs. 280)	16,044 (Rs. 1,954)	14,356 (Rs. 3,315)	— 499 — (Rs. 266)	+ 1,688 — (Rs. 1,361)
Total ...	140,572 (Rs. 49,625)	96,944 (Rs. 31,698)	480,882 (Rs. 1,05,566)	603,912 (Rs. 1,29,034)	+ 43,628 + (Rs. 17,927	— 1,23,030 — (Rs. 23,468)

2.—*Fuel.*

Division or District.	Demarcated State Forests.		District Reserved and Unreserved Forests.		Difference in favour of, or against the year.	
	1891-92.	1890-91.	1891-92	1890-91.	Demarcated State Forests.	District Reserved and Unreserved Forests.
	C. ft.	C. ft.	C. ft.	C. ft.	C. ft.	C. ft.
Ellichpur ...	28 (Re. 1)	... ...	390,855 (Rs. 11,171)	414,486 (Rs. 11,397)	+ 28 + (Re. 1)	— 23,631 — (Rs. 226)
Amraoti ...	18,754 (Rs. 772)	36,421 (Rs. 979)	424,781 (Rs. 19,780)	450,578 (Rs. 18,664)	— 17,667 — (Rs. 207)	— 25,797 + (Rs. 1,116)
Ako'a ...	77,854 (Rs. 4,131)	92,426 (Rs. 4,908)	285,674 (Rs. 12,372)	267,419 (Rs. 11,607)	— 14,572 — (Rs. 777)	+ 18,255 + (Rs. 765)
Buldana ...	24,483 (Rs. 900)	33,245 (Rs. 942)	86,577 (Rs. 2,396)	85,038 (Rs. 2,252)	— 8,762 — (Rs. 42)	+ 1,539 + (Rs. 144)
Basim ...	14,063 (Rs. 496)	5,607 (Rs. 208)	81,377 (Rs. 2,701)	130,140 (Rs. 3,946)	+ 8,456 + (Rs. 288)	— 48,763 + (Rs. 1,245)
Wun ...	962 (Rs. 25)	3,808 (Rs. 102)	152,933 (Rs. 5,198)	111,862 (Rs. 3,901)	— 2,846 — (Rs. 77)	+ 41,071 + (Rs. 1,297)
Total ...	136,144 (Rs. 6,325)	171,507 (Rs. 7,139)	1,422,197 (Rs. 53,618)	1,459,523 (Rs. 51,767)	— 35,368 — (Rs. 814)	— 37,326 + (Rs. 1,851)

3—*Bamboos.*

Division or District.	1891-92.			1890-91.			Difference in favour of, or against the year.		
	Demarcated State Forests.	District Reserved and Unreserved Forests.	Total.	Demarcated State Forests.	District Reserved and Unreserved Forests.	Total.	Demarcated State Forests.	District Reserved and Unreserved Forests.	Total.
	Nos.	Nos.	Nos.	Nos.	Nos.	Nos.	Nos.	Nos.	Nos.
Ellichpur	2,485,368	681,631	3,166,999	2,120,631	1,025,172	3,145,803	+ 364,737	— 343,541	+ 21,196
Amraoti..	...	...	...	...	300	300	...	— 300	— 300
Akola ...	...	...	...	...	900	900	...	— 900	— 900
Buldana.	..	...	...	...	...	...	...	...	...
Basim ..	1,200	500	1,700	..	1,462	1,462	+ 1,200	— 962	+ 238
Wun ...	28,037	41,600	69,637	27,475	20,150	47,625	+ 562	+ 21,450	+ 22,012
Total ..	2,514,605	723,731	3,238,336	2,148,106	1,047,984	3,196,090	+ 366,499	— 324,253	+ 42,246

96. *Timber.*—The outturn from Demarcated State Forests increased from 96,944 to 140,572 cubic feet. The increase was nearly all in the Bairagarh Reserve, except for an increase of 4,174 cubic feet in the Penganga Reserve in Basim.

The increase was owing to the opening up of three improvement fellings in Bairagarh, one in each of the Working-Circles.

97. The following statement shows the compartments in which fellings took place, the quantity of timber extracted, and the amount of revenue realised:—

Name of Circle.	Number of Compartment.	Cubical contents.	Revenue realised.	When worked.
Sembadoh	I	9,648	4,155	During rains of 1891.
	II	63,966	18,476	From 1st April 1891.
	III	8,964	4,187	From 1st January 1892.
		82,578	26,818	
Chaorakund ...	8 and village area.	31,707	11,523	From 1st April 1891.
Biba	24	15,430	8,391	From 1st October 1891.
	Total ...	129,715	46,732	Again[illegible]3,010 for 1890 91.

98. Compartment I of Sembadoh has been under fellings for the last three years (1888 to 1891), and was completed in the monsoon of 1891. It has yielded altogether 119,899 cubic feet (about 22·4 cubic feet per acre), for which Rs. 37,601 were realized.

Compartment II was commenced on the 1st April 1891, and is nearly finished; departmental fellings are going on, in which all the marked trees not taken by purchasers are being felled. Compartment III was begun on the 1st January 1892, but was closed again, it being found that there was sufficient work in compartment II to last over the year. It will be taken in hand after the monsoon.

Working in Chaorakund Compartment No. 8 and Biba No. 24 is finished, with the exception of the departmental fellings which will shortly be completed.

99. There has been a steadily increasing demand for the produce of the fellings. Traders have come in freely to them from Ellichpur and from the Akote

side by the new Akote-Selu road, a fair number have also come from Khandwa and Burhanpur. In fact their successful working seems to be assured.

At the beginning of the last working season a revised and more simple schedule of rates, calculated on the running foot for each girth class, was issued, and some became popular with traders.

The rates for wood other than teak were fixed at half the rates for teak, but these were found too high to induce people to take these classes of wood. Purchasers have therefore of late been allowed to take them at one-quarter the teak rates, but so long as teak can be got people will hardly look at any other kind of wood.

100. In the District Reserved and Unreserved Forests the outturn decreased from 603,912 to 480,882 cubic feet.

The decrease was principally in Ellichpur and Buldana; in the former owing to the prohibition against cutting teak bullies, *i. e.*, small poles, of 9″ girth in the open Melghat, a measure taken to check the rapid denudation of the open forests. Our fellings place us in a position to take this course, as they furnish a large quantity of such small pieces from the tops of trees. So that whereas when an attempt was made in 1880 in the same direction, by raising the rates of the "bully" from one anna to four annas, so much discontent was aroused that it had to be reduced again to 2 annas and practically no result was obtained, the opening of the fellings has enabled us to introduce the more drastic reform without any serious inconvenience.

Another reform introduced was the prohibition against cutting of the following twelve kinds of trees to check the reckless denudation going on in the open Melghat :—

Terminalia Arjuna.	Diospyros ebenum.
Bassia latifolia.	Ficus Bengalensis.
Mango.	Ficus religiosa.
Buchanania latifolia.	Tamarind.
Terminalia chebula.	Chloroxylon swetenia.
Semicarpus anacardium.	

101. In Buldana the decrease was due to the abolition of the system of allowing purchasers to cut teak poles on their own selection. The fellings in the former year had been abnormally heavy. On the other hand the fellings in Basim, where a Working Plan for the grazing lands in the Basim taluk was set working, the outturn increased from 58,917 to 64,845 cubic feet.

102. *Fuel.*—In *Reserved Forests* the total outturn was 136,144 as against 171,507 cubic feet in the previous year, or a decrease of 35,363 cubic feet. There were decreases in each Division except Basim, where there was a small increase owing to the opening of improvement fellings in the Penganga Reserve.

103. The decrease in *Amraoti* was due to the Chirodi Reserve having been leased only for grass, whereas in the previous year dry wood was included in the lease.

104. In *Akola* the outturn is calculated on the price paid at auction for the Reserved Babul-Ban coupes, and the prices obtained being smaller than in the previous year the outturn is put lower.

105. In *District Reserved and Unreserved Forests* the outturn fell from 1,459,523 to 1,422,197 cubic feet, a decrease of 37,326 cubic feet. There were decreases in Ellichpur, Amraoti, and Basim, and increases in the other Divisions. In Amraoti the decrease was due to closing the Amraoti hills tracts to cutting of firewood. The decrease in Basim was due to abnormal cutting in the previous year to supply a newly established mill, a supply that could not be continued.

106. The increase in Wun is due to the establishment of nakas at six of the larger towns for the collection of forest dues.

107. The question of taking head-loads of fuel coming from the Melghat is in abeyance in common with other alterations in the rates, pending the introduction of the new Law. This is to be regretted, as the amount of damage that is being done by firewood cutters in the lower hills of the Melghat is very great.

108. *Bamboos.*—In *Demarcated State Forests* the outturn increased from 2,148,106 bamboos to 2,514,605, an increase of 366,499, chiefly from the Melghat Reserves.

The increase is due to the opening of the Reserves in the Melghat by roads. Proportionately to its area the Gugamal forest is richer in bamboos than Bairagarh, and now that it is tapped by a good road, the outturn is increasing every year. It has already passed that of Bairagarh.

109. The small increase in the outturn from the Kelapur Forest in Wun is disappointing, especially as the rates were lowered from Rs. 2 to Rs. 1-8 per 100 to attract purchasers. We cannot expect much of an increase till the roads to the forest are improved.

110. In District Reserved and Unreserved Forests the outturn decreased by 324,253. This was owing to the rates for bamboos in the open forests in the Melghat having been raised from Rs. 1-8 to Rs. 2, as it was found that bamboos in the open forests were suffering from over-cutting.

111. *Grazing.*—The number of cattle that grazed in the several classes of State-Forests is given in Appendix A.

112. The total number that paid grazing dues was 1,453,686 head as against 1,435,376, an increase of 18,310. Of these 48,995 paid fees for grazing in the Reserves.

The principal increases were in Basim and Wun, where the Reserves were opened to limited grazing for a short period, owing to the protracted dryness of the season and consequent scarcity of fodder. The Buldana Reserves were open to grazing during the monsoon as usual. The number returned as having paid fees is more than double the number of the previous year; in fact it has again attained the figures of the time prior to the Wittinbaker frauds.

113. In the *District Reserved and Unreserved Forests* there were small increases in Ellichpur, Amraoti, Buldana, and Akola, and considerable decreases in Basim and Wun, owing probably to mortality amongst the cattle.

114 There was an increase of goats and sheep which represent over 27 per cent. of the total of cattle grazed. The question of raising the grazing fees for their animals has been kept in abeyance pending the introduction of the new rules.

115. *Minor produce.*—There was an increase in the value of the outturn of Rs. 4,812: in Wun Rs. 1,732, Basim Rs. 1,254, Amraoti Rs. 917, and Ellichpur Rs. 843.

The increase was due to better sale of the mango and mohwa crops and to receipts from gum.

3.—*Free grants of Forest Produce.*

116. The following is a comparative statement of the free grants made during

the year. Their value amounted to Rs. 93 against Rs. 495 in the previous year :—

Authority under which granted.	Name of Division or District.	Name of grantee.	Purpose for which granted.	Produce granted.		
				Description.	Quantity.	Value in Rs.
					C. ft.	Rs.
Secretary for Berar's No. 2773, dated 24th July 1891.	Buldana.	Villagers of Buldana.	Building houses burnt down.	Unreserved timber ...	497	71
					Tons.	
				Grass ...	80	6
						77
Conservator of Forests, Hyderabad Assigned Districts, No. 755, dated 14th July 1891.	Wun ...	Patels of Anjankhed, Kurha, Lonbehel, Pimpalner and Ghonsar.	Thatching purposes.	Grass .	32	16
					Total ...	Rs. 93

4.—Produce removed by right holders and under concessions.

117. There are no rights to forest produce held in Berar against Government.

118. The concessions granted under the rules of 1871 and 1874 to head-loads of fuel and to collect free edible fruits except mango and mohwa are in force. No reliable estimate can be made of the quantity of produce removed under them.

CHAPTER V.—Financial Results.

119. The following are the results of the year compared with those of the four previous years :—

Year.	Receipts. Rs.	Charges. Rs.	Surplus. Rs.
1887-88 ...	4,06,247	1,83,160	2,23,087
1888-89 ...	4,08,192	1,69,295	2,38,897
1889-90 ...	4,40,540	1,76,549	2,63,991
1890-91 ...	4,87,109	1,68,922	3,18,187
1891-92 ...	5,11,180	1,97,340	3,13,840

120. [illegible]pts were Rs. 24,071 more than in the previous year, but the expenditure was Rs. 28,418 more, so that the surplus was less by Rs. 4,347. The ratio of surplus to gross revenue was 61·3 per cent. as against 65·3 in the previous year.

121. The revenue was realised from the following sources :—

	1891-92. Rs.	1890-91. Rs.	Increase or decrease. Rs.
Timber	1,55,191	1,60,732	— 5,541
Firewood and charcoal	59,943	58,906	+ 1,037
Bamboos	49,785	48,181	+ 1,604
Grazing	1,70,585	1,65,517	+ 5,068
Grass	50,095	33,316	+ 16,779
Other minor produce ...	23,927	19,115	+ 4,812
Confiscated do. ...	1,047	474	+ 573
Miscellaneous sources...	607	868	— 261
Total ...	5,11,180	4,87,109	+ 24,071

122. There were thus increases under all important heads except *timber*. The decrease under that head was chiefly due to the prohibition to cut bullies, *i.e.*, saplings not exceeding 9″ in girth in the open Melghat.

There was also a considerable decrease in Buldana owing to the stoppage of the old unsystematic method of selling teak from Unreserved Forests, but there was a large increase in Basim owing to good sales of wood departmentally felled in grazing lands under the new system.

123. *Fuel.*—The small increase under this head is chiefly due to collections at the nakas lately established in Wun and to better sales of Babul Bans in Amraoti.

124. *Grass.*—The large increase was due to the scarcity of fodder and consequent large demand for grass from the Reserves and Ramnas. In every Division there was a considerable increase under this head.

125. The following statement shows the expenditure of the year compared with that of the previous year :—

Budget heads.	1891-92.	1890-91.	Increase.	Decrease.
	Rs.	Rs.	Rs.	Rs.
A.—*Conservancy and Works.*				
I. Timber and other produce removed from the forests by Government agency.	...	...	...	...
II. Timber and other produce removed from the forests by consumers and purchasers.	31,967	24,458	7,509	...
V. Rent of leased forests and payments to shareholders in forests managed by Government.	20,244	15,558	4,686	...
VI. Live stock and dead stock	4,503	5,701	...	1,198
VII. Communications and buildings	19,049	14,844	4,205	...
VIII. Demarcation, improvement and extension of forests.	13,285	10,989	2,296	...
IX. Miscellaneous	1,033	973	60	...
Total A.—Conservancy and Works ...	90,081			[illegible]
B.—*Establishment.*				
I. Salaries	84,053	78,701	5,352	...
II. Travelling Allowances	14,981	12,523	2,458	...
III. Contingencies	8,225	5,174	3,051	...
Total B.—Establishment ...	1,07,259	96,399	10,861	...
Grand Total of Expenditure ...	1,97,340	1,68,922	29,617	1,198
		Net ...	28,419	

126. Under A-II there were increases in all districts except Akola, due to more prompt payment of commissions to village officials and also to the entertainment of temporary establishment.

The increase under A-V was due to arrear payment to the young Rajah of Kutkali, whose claims to his father's property had been under abeyance pending their settlement by Government.

The increase under A-VII was due to more road work having been carried out in the Melghat and to the building of forest bungalows in Akola and Wun Divisions.

The increase under A-VIII was due to the demarcation and fire protection of new Reserves and to creeper-cutting operations in the Melghat Reserves.

Under B-I the increase was due to promotion of officers, and under B-II to officers remaining more in camp.

Under B-III, the increase was due to the marching establishments being charged to B-III-*b* instead of B-I-*d* as was formerly the case, and to certain miscellaneous charges to B-III-*f* instead of to various other heads to which they used to be charged.

127. The surplus and deficits under the three great heads of accounts for the past four years were as follows :—

Source of revenue and expenditure.	1888-89.		1889-90.		1890-91.		1891-92.	
	Surplus.	Deficit.	Surplus.	Deficit.	Surplus.	Deficit.	Surplus.	Deficit.
	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.
I. Departmental timber operations.	...	..	..	...	...	...	...	...
II. Other revenue ...	2,93,154	...	3,20,829	..	3,82,509	...	3,88,850	...
III. Protection, &c..	..	54,257	...	56,838	...	64,322	...	75,010
Total ...	2,93,154	54,257	3,20,829	56,838	3,82,509	64,322	3,88,850	75,010

128. The financial results by classes of forests are compared as follows with those of the previo :—

y of Financial Results by classes of Forests.

Class of forests.	Revenue.		Expenditure.		Surplus.		Deficit.	
	1890-91.	1891-92.	1890-91.	1891-92.	1890-91.	1891-92.	1890-91.	1891-92
	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.
Demarcated State-Forests	88,297	1,31,634	58,059	74,452	30,238	57,182	...	...
District Reserved and Unreserved Forests (excepting Ellichpur Unreserved Forests).	2,65,872	2,73,318	67,538	76,522	1,98,334	1,96,796	...	...
District Unreserved Forests of Ellichpur.	1,32,940	1,06,228	43,325	46,366	89,615	59,862	...	...
Total ...	4,87,109	5,11,180	1,68,922	1,97,340	3,18,187	3,13,840	...	...

2.—*Financial Results by classes of Forests and by Divisions.*

Division.	Class of forest.	Revenue.		Expenditure.		Surplus.		Deficit.	
		1890-91.	1891-92.	1890-91.	1891-92.	1890-91.	1891-92.	1890-91	1891-92.
		Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.
Direction.	Office ...	490	368	20,335	22,176	...	...	19,845	21,808
Ellichpur.	Office ...	2	5	16,959	19,485	...	...	16,957	19,480
	Demarcated State-Forests.	61,905	85,148	23,853	30,677	38,052	54,471	...	...
	District Reserved Forests.	5,162	5,962	1,310	1,157	3,852	4,805	...	...
	Unreserved Forest, Melghat.	1,32,806	1,06,145	27,061	31,284	1,05,745	74,861	...	...
		1,99,875	1,97,260	69,183	82,603	1,47,649	1,34,137	16,957	19,480
Amraoti.	Office ..	...	5	4,244	5,185	...	...	4,244	5,180
	Demarcated State-Forests.	4,082	6,358	1,872	1,911	2,210	4,447	...	...
	District Reserved and Unreserved Forests.	68,860	74,438	3,709	6,283	65,151	68,155	...	...
		72,942	80,801	9,825	13,379	67,361	72,602	4,244	5,180
Akola.	Office ...	41	63	4,159	4,399	...	...	4,118	4,336
	Demarcated State Forests.	8,103	8,780	3,172	4,403	4,931	4,377	...	...
	District Reserved and Unreserved Forests.	34,831	39,906	6,107	6,285	28,724	33,621	...	...
		42,975	48,749	13,438	15,087	33,655	37,998	4,118	4,336
Buldana.	Office ..	19	...	2,909	7,310	...	...	2,890	7,310
	Demarcated State-Forests.	3,862	9,803	2,514	2,827	1,348	6,976	...	...
	District Reserved and Unreserved Forests.	46,297	39,381	7,476	8,053	38,821	31,328	...	...
		50,178	49,184	12,899	18,190	40,169	38,304	2,890	7,310
Basim.	Office ...	60	3	10,810	7,735			12	7,732
	Demarcated State-Forests.	4,842	10,546	5,497	6,508			5	...
	District Reserved and Unreserved Forests.	43,003	44,438	5,833	5,971	37,...	38,467	...	...
		47,905	54,987	22,140	20,214	37,170	42,505	11,405	7,732
Wun.	Office ...	1	3	5,909	6,652	...	...	5,908	6,649
	Demarcated State Forests.	5,372	10,874	6,627	6,865	...	4,009	1,255	...
	District Reserved and Unreserved Forests.	67,371	68,954	8,566	12,174	58,805	56,780	...	...
		72,744	79,831	21,102	25,691	58,805	60,789	7,163	6,649
		4,87,109	5,11,180	1,68,922	1,97,340	3,84,809	3,86,335	66,622	72,495
					Deduct deficit ...	66,622	72,495		
					Net surplus ...	3,18,187	3,13,840		

129. The largely increased revenue from Reserves in every Division except Akola was due, in the Reserves outside Melghat, to large sales of fodder grass owing to scarcity of fodder outside the Reserves, and in the Melghat Reserves to the opening of three improvement fellings instead of one in the previous year.

CHAPTER VI.—General remarks.

130. The results of meteorological observations given in Appendix D show that the rainfall was rather less than usual. The monsoon came in late, was light at first, but very heavy rain fell in the first half of September, which caused heavy floods in the rivers, especially in the Penganga and Wardha, uprooting and breaking numerous trees along their banks. The usual cold weather showers were absent.

A feature of the year as regards meteorology was the abnormally small dew deposits in the forests. The Meteorological Reporter to the Government of India was good enough to give his opinion on the probable cause of this phenomenon. He attributed it to the fact that the winds during the cold weather were more northerly than usual, and instead of merely traversing Khandesh, came to us after crossing the dry plains of Rajputana and Central India, and therefore had lost much of their moisture.

131. The health of the establishment was on the whole fairly good, but several deaths occurred as will be seen from the following list:—

Direction.—Gangadeen, Peon.
Ellichpur.—Israrul Huq, Ranger.
Bhagwansing, Peon.
Akola.—Vithoba Janba, Karkun.
Buldana.—Seetal Persad, Guard.
Basim.—Alabax, Guard.
Wun.—Punamsingh, Guard.
Raghunathsingh, Guard.

132. As regards Mr. Prevost's management of his important charge, the Ellichpur Division, the Conservator can only repeat his opinion expressed last year that it is excellent. The introduction of improvement fellings in the Melghat Reserves on an extended scale has considerably increased his duties both in amount and in responsibility, and the success which has attended them is due principally to his energy and forethought.

Mr. Coventr[illegible]od work in Buldana in drawing up schemes for the work[illegible] of [illegible]nds and Babul-Bans.

M[illegible] and Mr. Haldane did good service in their respective charges.

All the Rangers are well-reported on by Divisional Officers, and with some exceptions the rest of the forest staff.

The Conservator's Office continued to be well managed by Head Clerk Mr. Ganesh Narayen.

F. B. DICKINSON,

Officiating Conservator of Forests,

Hyderabad Assigned Districts.

APPENDICES.

FORESTS.

ANNUAL FORM No. 49.—*Area of Demarcated State Forests* 1891-92.

Division.	Range.	Civil District or Territory.	Name of Forest.	Area on 1st April 1891.		Added during the year.	Excluded or transferred to other heads.	Area on 31st March 1892.		No. and date of notification of addition or transfer.	Remarks.
				Acres.	Equivalent in square miles.	Acres.	Acres.	Acres.	Equivalent in square miles.		
Ellichpur	Bairagarh	Ellichpur	Bairagarh Reserve		425	...	...	272,049	425		
	Gugamal...		Gugumal do.		180	...	...	115,044	180		
	Chikalda		Chikalda do. ...		4	*a* 17,664	...	20,064	31	*a* Hyderabad Residency Orders Notification No. 213, dated 22nd July 1891.	*a* Extension of the Reserve.
				389,493	609	17,664	...	407,157	636		
Amraoti	...	Amraoti	Chirodi Reserve ..	8,123	13	*a* 31	...	8,154	13	*a* Hyderabad Residency Orders Notification No. 72, dated 29th March 1892.	*a* The area of Field No. 57 of Pohra although in the Reserve was wrongly shown under Ramnas.
			Mehdari do. ...	4,075	6	...	...	4,075	6		
				12,198	19	31	...	12,229	19		
Akola	...	Akola.	Loni Reserve ...	908	1	...	...	908	1		
			Bhogaon do. ...	1,368	2	*a* 21	...	1,389	2	*a* Berar Secretary's No. 2771, dated 24th July 1891.	*a* Field No. 15 transferred from cultivation.
	Ghatbori	Akola, Buldana and Basim.	Ghatbori do. ...	23,760	37	*b* 13	*b* 806	22,967	36	*b* Hyderabad Residency Orders Notification No. 83, dated 1st April 1892.	*b* Correction of area.
	...	Akola	Mandwa do. ...	5,475	9	*c* 10	...	5,485	9	*c* Hyderabad Residency Orders Notification No. 84, dated 1st April 1892.	*c* Do.
			Borgaon do. ...	1,435	2	*d* 66	*e* 40	1,461	2	*d* Hyderabad Residency Orders Notification No. 62, dated 16th March 1892.	*d* Three fields transferred from cultivation.
	Amba Barwa.	Akola and Ellichpur.	Amba Barwa Reserve.	6,250	10	*f* 26,050	...	32,300	51	*e* Hyderabad Residency Orders Notification No. 63, dated 16th March 1892.	*e* Two fields given up for cultivation.
										f Hyderabad Residency Orders Notification No. 315, dated 11th December 1891.	*f* Extension of the Reserve.
				39,196	61	26,160	846	64,510	101		

Buldana.	Gerumatergaon and Amdari.	Buldana	Gerumatergaon Reserve	46,405	73	...	...	46,405	73		
			Amdari Reserve ...	13,719	21	...	...	13,719	21		
				60,124	94	...	...	60,124	94		
			Penganga Reserve ...	12,483	20	...	*a*321	12,162	19	*a* Hyderabad Residency Orders Notification No. 327, dated 22nd December 1891.	*a* Correction of area.
			Rui do. ...	6,674	10	...	*b*6	6,668	10	*b* Hyderabad Residency Orders Notification No. 325, dated 22nd December 1891.	*b* Do.
			Gahuli do. ..	9,507	15	*c*1	...	9,508	15	*c* Hyderabad Residency Orders Notification No. 329, dated 22nd December 1891.	*c* Do.
Basim ...	Kinwat ...	Basim ...	Kinwat do. ..	94,128	147	*d*10	...	94,138	147	*d* Hyderabad Residency Orders Notification No. 326, dated 22nd December 1891.	*d* Do.
			Medsi do. ...	1,115	2	*e*1	...	1,116	2		*e* On account of discarding fractions.
			Mohaja do. ...	2,111	3	...	..	2,111	3		
			Chandas do. ...	3,016	5	...	...	*f* 3,016	5	*f* Hyderabad Residency Orders Notification No. 328, dated 22nd December 1891.	*f* Correction of details.
			Ekburji do ...	172	...	...	...	172	...		
				129,206	202	12	327	128,891	201		
			Kelapur Reserve ...	40,289	63	*a*4	...	40,293	63	*a* Hyderabad Residency Orders Notification No. 179, dated 26th June 1891.	*a* Correction of area.
	Kelapur		Ghordara do ...	...	..	*b*3,941	...	3,941	6	*b* Hyderabad Residency Orders Notification No. 256, dated 18th September 1891.	*b* Transferred from Grazing Lands.
			Nidha do. ...	...	...	*c*10,598	...	10,598	17	*c* Do. do.	*c* Transferred from Unreserved Forests.
			Tiwsala do. ...	4,873	8	...	...	4,873	8		*d* Transferred from Grazing Lands.
	Wun ...		Phiski do. ..	...	...	*d*2,342	...	2,342	4	*d* Do. do.	*e* Do. do.
Wun ...		Wun ...	Bhiokund do. ...	...	...	*e*3,433	...	3,433	5	*e* Do. do.	*f* 1,799 transferred from Ramnas.
			Pawnar do. ...	...	...	*f*3,934	...	3,934	6	*f* Do. do.	2,135 do. from Grazing Lands.
			Gondwakri do. ...	16,359	25	...	...	16,359	26		One square mile added in order to come to the correct equivalent of total acres and the fraction being more than half a square mile.
	Yeotmal		Kharad do. ..	15,514	24	...	...	15,514	24		
			Anjankheir do. ...	7,634	12	...	...	7,634	12		
	Darwha		Lonbehel do. ...	9,18[illegible]	14	...	...	9,187	14		
			Pathrot do. ...	2,[illegible]	5	...	...	2,980	5		
			Dabhdi do. ...	[illegible]	...	*g*7,788	...	7,788	12	*g* Do. do.	*g* 267 transferred from Unreserved Forests.
			Umbarde do. ...	[illegible]	...	*h*1,990	...	1,990	3	*h* Hyderabad Residency Orders Notification Nos. 256 and 287, dated 18th September and 3rd November 1891.	7,521 transferred from Grazing Lands.
				[illegible],836	151	34,030	...	130,866	205		*h* Transferred from Grazing Lands.
			Total ...	727,053	1,136	77,897	1,173	803,777	1,256		

FORESTS.

ANNUAL FORM No. 49.—*Area of District Reserved Forests*, 1891-92.

Division.	Range.	Civil District or Territory.	Name of Forest.	Area 1st April 1891.		Added during the year.	Excluded or transferred to other heads.	Area on 31st March 1892.		No. and date of notification of addition or transfer.	Remarks.
				Acres.	Equivalent square miles.	Acres.	Acres.	Area.	Equivalent in square miles.		
Ellichpur...	...	Ellichpur	Woods (Babul bans) ..	1,390	2	...	...	1,390	2		
			Grass lands (Ramnas).	63	...	...	...	63	...		
			Grazing lands ...	34,534	54	...	...	34,534	54		
				35,987	56	...	...	35,987	56		
Amraoti ...	...	Amraoti.	Woods (Babul bans)...	7,350	12	...	...	7,350	12		
			Grass lands (Ramnas)..	13,471	21	*a*1	*b*33	13,439	21	*b* Hyderabad Residency Orders Notification No. 72, dated 29th March 1892.	*a* Correction of area. *b* 31·3 wrongly shown here, now transferred to Demarcated State Forests.
			Grazing lands ...	169,194	264	...	*c*106	169,088	264	Berar Secretary's No. 3692, dated 7th October 1891.	2·21 portions of Nos. 46 to 48 and 50 to 54 of Warad given up for the Kalapani tank.
				190,015	297	1	139	189,877	297	Commissioner, Hyderabad Assigned Districts, No. 1776, dated 17th March 1891. Berar Secretary's No. 3692, dated 7th October 1891.	*c* 98·0 correction of area. 3·0 given up for Gaothanand road. 4·24 given up for the Kalapani tank from Nos. 17 and 24 of Jewad and Nos. 28 to 33 of Warad.
Akola ...	...	Akola ...	Reserved Forests ...	46,851	73	...	*a*27	46,824	73	*a* Berar Secretary's No. 2771, dated 15th September 1891.	*a* 22 transferred to cultivation. 5 correction of area.
Buldana ...	...	Buldana ..	Reserved Forests ...	5,032	8	...	...	5,032	8		
Basim ..	...	Basim ...	Reserved Forests ...	9,147	14	...	...	9,147	14		
Wun ...	...	Wun ...	Woods (Babul bans)...	2,707	4	...	*a*46	2,661	4	*a* Deputy Commissioner, Wun.	*a* To make the Forest Report agree with the Revenue Report.
			Grass lands (Ramnas).	16,476	26	*a*977	*b*1,799	15,654	24	*b* Hyderabad Residency Orders Notification No. 256, dated 18th September 1891..	*b* Transferred to Demarcated State Forests.
			Grazing lands ...	342,041	534	*a*17,620	*c*21,362	338,299	529	*c* Hyderabad Residency Orders Notification Nos. 256 and 287, dated 18th September and 3rd November 1891.	*c* Do. do.
				361,224	564	18,597	23,207	356,614	557		
				648,256	1,012	18,598	23,373	643,481	1,005		

FORESTS.

ANNUAL FORM No. 49.—*Area of District Unreserved Forests*, 1891-92.

Division.	Range.	Civil District or Territory.	Name of Forest.	Area on 1st April 1891.		Added during the year.	Excluded or transferred to other heads.	Area on 31st March 1892.		No. and date of notification of addition or transfer.	Remarks.
				Acres.	Equivalent in square miles.	Acres.	Acres.	Acres.	Equivalent in square miles.		
Ellichpur	Melghat Taluk.	Ellichpur	Unreserved Forests ...	586,275	916	...	...	586,275	916		
	Remainder of District.		Do. ...	488	1	...	...	488	1		
				586,763	917	...	...	586,763	917		
Amraoti ...	...	Amraoti ...	Unreserved Forests ...	21,560	34	*a*13	*b*10,583	10,890	17		*a* Cultivation abandoned. *b* Area set apart for village purposes wrongly shown under "Forests" in previous Reports.
Akola ...	...	Akola ...	Unreserved Forests ...	105,092	164	*a*12	*b*1,169	103,935	162		*a* Cultivation resumed. *b* 1,168 given up for cultivation. 1 correction of area.
Buldana ...	...	Buldana ...	Unreserved Forests ..	198,117	309	*a*2,014	...	200,131	313		*a* 1,551 cultivation resumed. 463 do. abandoned.
Basim ...	...	Basim ...	Unreserved Forests ...	360,865	564	*a*521	*b*185	361,201	564		*a* 506 cultivation abandoned 15 correction of area. *b* 54 correction of area. 131 given back to Jagirdar.
Wun ...	...	Wun ...	Unreserved Forests ...	94,979	148	*a*45,453	*b*10,865	129,567	202	*b* Hyderabad Residency Orders Notification No. 256, dated 18th September 1891.	*a* Block Nos. added as available for cultivation. *b* Transferred to Dabhdi and Nidha State Forests.
			Total ...	1,367,376	2,136	48,013	22,902	1,392,487	2,175		

FORESTS.

ANNUAL FORM No. 50.—*Prosecutions for Breaches of Forest Rules during* 1891-92.

Forest Division.		Cases pending from 1890-91.	New cases of the year.					Total new cases of the year.	Total cases.	Disposed of during the year.						Cases pending at close of year.
			Injury to forest by fire.	Unauthorised felling or appropriation of wood and minor forest produce.	Grazing without permission, or in tracts in which grazing is prohibited.	Other offences.				Convictions.		Acquittals.		Total.		
										Cases.	Persons.	Cases.	Persons.	Cases.	Persons.	
Ellichpur.																
Demarcated State Forests	A...	...	1	23	...	2	26	26	25	55	1	5	26	60	...	
District Reserved Forests	A...	...	...	7	...	...	7	7	7	9	...	2	7	11	...	
District Unreserved Forests	A...	...	...	48	..	...	48	48	42	66	6	9	48	75	...	
Total ... 1891-92	A...	...	1	78	...	2	81	81	74	130	7	16	81	146	..	
1890-91	A...	2	...	30	...	60	90	92	80	110	12	36	92	146	...	
Amraoti.																
Demarcated State Forests	A...	...	1	3	8	...	12	12	8	15	4	4	12	19	...	
District Reserved and Unreserved Forests	A...	14	...	97	...	4	101	115	95	117	11	18	106	135	9	
	C...		...	3	...	...	3	3	...	...	...	...	...	...	...	
Total ... 1891-92	A...	14	1	100	8	4	113	127	103	132	15	22	118	154	9	
	C...	.	...	3	...	...	3	3	...	...	...	..	...	...	...	
1890-91	A...	...	...	83	1	1	85	85	64	78	7	26	171	104	14	
	C...	...	2	..	...	...	2	2	...	...	...	...	..	...	...	
Akola.																
Demarcated State Forests	A...	1	3	1	...	1	7	8	8	31	...	5	8	36	...	
	C...	...	1	...	...	...	1	1	...	...	...	...	...	..	...	
District Reserved and Unreserved Forests	A...	2	...	8	1	1	10	12	8	21	3	6	11	27	1	
Total ... 1891-92	A...	3	3	9	3	2	17	20	16	52	3	11	19	63	1	
	C...	...	1	...	...	...	1	1	...	...	...	...	...	...	...	
1890-91	A...	...	4	13	3	7	27	27	21	54	3	7	24	61	3	
Buldana.																
Demarcated State Forests	A...	...	...	2	...	...	2	2	1	1	1	2	2	3	...	
	C...	...	3	...	...	...	3	3	...	..	...	...	...	..	...	
District Reserved and Unreserved Forests	A...	4	...	39	...	1	40	44	30	61	8	10	38	71	6	
	C...	...	...	17	...	...	17	17	...	...	...	...	...	...	...	
Total ... 1891-92	A...	4	...	41	...	1	42	46	31	62	9	12	40	74	6	
	C...	...	3	17	...	...	20	20	...	...	...	...	...	...	...	
1890-91	A...	...	1	53	3	...	57	57	37	43	16	39	53	82	4	
	C...	...	2	...	...	...	2	2	...	...	...	...	...	...	...	
Basim.																
Demarcated State Forests	A...	1	5	1	2	13	21	22	15	30	5	20	20	50	2	
	C...	...	...	4	1	...	5	5	...	...	...	...	...	...	...	
District Reserved and Unreserved Forests	A...	5	...	34	1	4	39	44	34	53	10	56	44	109	...	
	C...	...	...	15	...	...	15	15	...	...	...	...	..	..	...	
Total ... 1891-92	A...	6	5	35	3	17	60	66	49	83	15	76	64	159	2	
	C...	...	...	19	1	...	20	20	..	.	...	...	...	...	...	
1890-91	A...	...	1	58	7	19	85	85	67	215	12	52	79	267	6	
	C...	...	...	14	...	1	15	15	...	...	...	...	...	...	...	
Wun.																
Demarcated State Forests	A...	...	...	2	4	5	11	11	7	13	...	...	7	13	4	
	C ..	...	8	1	...	...	9	9	...	...	...	...	...	...	...	
District Reserved and Unreserved Forests	A..	...	...	16	2	31	49	49	34	38	14	19	48	57	1	
	C...	...	...	8	...	...	8	8	...	..	...	...	...	...	...	
Total ... 1891-92	A...	...	...	18	6	36	60	60	41	51	14	19	55	70	5	
	C...	...	8	9	...	..	17	17	...	...	...	...	...	...	...	
1890-91	A...	2	..	14	6	52	72	74	64	87	10	21	74	108	...	
	C...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	
Abstract.																
Demarcated State Forests.	1891-92 A...	2	10	32	16	21	79	81	64	145	11	36	75	181	6	
	C...	...	12	5	1	...	18	18	...	...	...	...	...	...	...	
	1890-91 A...	...	6	29	13	9	57	57	47	133	8	32	55	165	2	
	C...	..	2	...	...	1	3	3	...	...	...	...	...	...	...	
District Reserved and Unreserved Forests.	1891-92 A..	25	...	249	4	41	294	319	250	365	52	120	302	485	17	
	C ..	..	...	43	...	..	43	43	...	...	..	...	...	...	...	
	1890-91 A...	4	...	222	7	130	359	363	286	454	52	149	338	603	25	
	C ...	...	2	14	...	...	16	16	...	...	...	...	...	...	...	
Total ... 1891-92	A..	27	10	281	20	62	373	400	314	510	63	156	377	666	23	
	C..		12	48	1	...	61	61	...	...	...	...	...	...	...	
1890-91	A...	4	6	251	20	139	416	420	333	587	60	181	393	768	27	
	C...	...	4	14	...	1	19	19	...	...	...	...	...	..	...	

FORESTS.

ANNUAL FORM No. 51—(PRESCRIBED).—*Area of Forest Tracts protected from fire during the dry season* 1892, *to accompany Report for* 1891-92.

Division.	Forest Tracts	Year in which protection commenced.	Area actually protected up to 30th June 1891.	During dry season of 1892.			Cost during the season up to 30th June 1892.
				Area attempted to be protected.	Failures.	Actually protected.	
			Acres.	Acres.	Acres.	Acres.	Rs.
Ellichpur.	Raipur block of Bairagarh Reserve.	1870	14,131	14,231	...	14,231	1,767
	Remainder of Bairagarh Reserve.	1872	257,818	257,818	...	257,818	
	Gugamal Reserve ...	1877	115,042	115,044	230	114,814	825
	Chikalda do. ...	1890	2,400	20,064	...	20,064	254
	Total ...		389,391	407,157	230	406,927	2,846
Amraoti..	Chirodi Reserve ..	1881	1,000	8,154	...	8,154	258
	Mehdari do.	1889	4,075	4,075	2	4,073	160
	Total ...		5,075	12,229	2	12,227	418
Akola ...	Loni Reserve ...	1882	908	908	...	908	...
	Bhongaon do ..	1882	1,388	1,389	...	1,389	...
	Ghatbori do ..	1881	23,365	22,967	25	22,942	794
	Mandwa do ..	1882	5,434	5,485	140	5,345	
	Borgaon do ...	1889	1,435	1,461	...	1,461	...
	Total ..		32,510	32,210	165	32,045	794
Buldana..	Gerumatergaon Reserve ..	1880	45,505	46,405	...	46,405	237
	Amdari do ...	1883	13,438	13,719	16	13,703	151
	Total ...		58,943	60,124	16	60,108	388
Basim ...	Penganga Reserve ..	1880	12,327	12,162	869	11,293	183
	Rui do	1882	6,444	6,668	...	6,668	125
	Gabuli Reserve (not protected).	...	...	...	...	...	...
	Kinwat Reserve ..	1881	94,026	94,138	...	94,138	741
	Chandas do. ..	1889	3,016	3,016	...	3,016	53
	Medsi do. ..	1889	1,115	1,116	...	1,116	87
	Mohoja do. ..	1889	2,106	2,111	2	2,109	60
	Ekburji do. ..	1889	172	172	...	172	...
	Total ...		119,206	119,383	871	118,512	1,249
Wun ..	Kelapur Reserve ...	1881	40,071	40,293	400	39,895	823
	Tiwsala do. ...	1882	2,205	4,873	...	4,873	129
	Gondwakri do. ...	1882	13,204	16,359	5,700	10,659	313
	Khurid do. ...	1882	13,892	15,514	280	15,234	387
	Anjankhed do. ...	1882	7,626	7,634	89	7,545	160
	Lonbehal do. ...	1882	9,187	9,187	...	9,187	123
	Pathrot do. ...	1882	2,980	2,980	...	2,980	150
	Total ..		89,165	96,840	6,469	90,371	2,085
	Grand Total ...		694,290	727,943	7,753	720,190	7,780

FORESTS

ANNUAL FORM No. 52.—*Area of Plantations and Cultural Opeations*, 1891-92.

Division.	Name of Plantation.	Area in acres. On 1st April 1891.	Added during the year.	Excluded during the year.	Area on 31st March 1892.	Receipts. Of the year.	Charges Of the year.	Remarks.
	(1)—*Regular Plantations.*							
	Bairagarh Reserve.							
Ellichpur.	Abapur	120	...	100	20	...	...	Teak and bamboo.
	Bujru	31	...	6	25	...	...	Do.
	Dugapati	11	...	3	8	...	...	Do.
	Jumbulwari	600	...	560	40	...	...	Teak.
	Kolkaz	1	...	...	1	...	...	Bamboo.
	Labu	279	...	20	259	...	...	Teak.
	Pili	52	...	3	49	...	...	Do.
	Pipalcotah	160	...	5	155	..	..	Teak and bamboo.
	Rakiadoh	13	...	4	9	...	...	Do.
	Saoli	110	...	25	85	..	...	Do.
	Saoli and Kurithh	30	...	28	2	..	...	Teak.
	Sembadoh	2	...	...	2	...	...	Teak and bamboo.
	Total	1,409	...	754	655	...	...	NOTE.—On a detailed examination of these plantations it is found that the areas excluded herein are now blanks.
	(2)—*Cultural Operations.*							
Direction	Office.	...	...	...	...	...	26	Collection of seeds.
Ellichpur	Baiargarh Reserve	330	...	...	330	...	...	Teak, tewas, haldu dhaora and bamboo seeds broadcast in 1889.
	Gugamal do	751	...	...	751	...	...	Do. do. in 1890
	Chikalda do	...	...	...	...	...	131	Forest garden.
	District Reserved Forests	2	...	..	2	...	179	Date plantation.
		1,083	...	..	1,083	...	310	
Amraoti	Chirodi Reserve	1	...	...	1	.	67	Sown with bamboo.
	District Reserved Forests	10	...	...	10	...	...	Do.
		11	...	...	11	...	67	
Akola	Loni Reserve	460	25	..	485	...	20	Sown with telia babul.
	Bhongaon Reserve	539	50	...	589	...	6	Do.
	Ghatbori Reserve	...	57	...	57	...	136	Sown with tea also 78 acres pitted for sowing next monsoon.
		999	132	...	1,131	...	162	
Buldana	Gerumatergaon Reserve.	115	...	...	115	...	16	Collection of teak seed.
	Amdari Reserve	...	38	...	38	...	76	Collection of teak seed and sowing with it.
		115	38	...	153	...	92	
Basim	Penganga Reserve	478	1	...	479	...	121	Sown with bamboo, &c.
	Rui do	...	...	...	...	...	1	
	Kinwat do	250	...	...	250	...	...	
	Medsi do	300	...	...	300	...	...	
		1,028	1	...	1,029	...	122	
Wun	Kelapur Reserve	30	140	...	170	...	195	Sown with teak and anjan.
	Gundwakri do	...	...	...	...	...	2	
	Kharad do	400	...	400	...	...	15	Entire failure.
	Pathrot do	...	...	...	...	...	29	
	Lonbehel do	...	...	...	...	...	2	
	Tiwsala do	...	...	...	...	...	3	
		430	140	400	170	...	246	
	Tota	3,666	311	400	3,577	...	1,025	

FORESTS.

ANNUAL FORM No. 54.—*Outturn (in Cubic Feet, solid) of Timber and Fuel during the year* 1891-92 *and Agency of Exploitation.*

Division.	Timber in the rough; logs.					Timber in the rough; poles.				Sawn or squared timber.					Miscellaneous				Fuel.				Total.
	Government.	Purchasers.	Free grantees.	Right-holders.	Total.	Government.	Purchasers	Free grantees.	Right-holders.	Total.	Government.	Purchasers.	Free grantees.	Right-holders.	Total.	Government.	Purchasers.	Free grantees.	Right-holders.	Total.	Government	Purchasrs.	Free grantees.	Right-holders.	Total.	Outturn..
I.—Reserved Forest (Demarcated).																									
Ellichpur		98,985			98,985	33,996			33,996												28			28	133,009
Amraoti																					18,754			18,754	18,754
Akola						602			602												77,854			77,854	78,456
Buldana						581			581												24,483			24,483	25,064
Basim						5,403	*925		6,328												14,063			14,063	20,391
Wun						80			80												962			962	1,342
Total		98,985			98,985	40,662	925		41,587												136,144			136,144	276,716
II.—District Reserved and Unreserved Forests.																									
Ellichpur (Reserves only)																					12,985			12,985	12,985
Amraoti						367			367												424,781			424,781	425,148
Akola						11,588			11,588												285,674			285,674	297,262
Buldana						66,378	497		66,375												86,577			86,577	153,452
Basim						64,736	*109		64,845												81,377			81,377	146,222
Wun						11,243	4,801		16,044												152,933			152,933	168,977
Ellichpur (Unreserves only)						321,163			321,163												377,870			377,870	699,033
Total						475,475	5,407		480,882												1,422,197			1,422,197	1,903,079
Grand Total		98,985			98,985	516,137	6,332		522,469												1,558,341			1,558,341	2,179,795

* 1,034 cubic feet used for Government purposes.

FORESTS.

ANNUAL FORM No. 55.—*Outturn of Minor Forest Produce during the year* 1891-92.

Division.	Description of produce.	Produce removed or utilized.									
		By Government Agency.		By Purchasers.		By free grants.		By right-holders.		Total.	
		Quantity.	Value.	Quantity.	Value.	Quantity.	Value.	Quantity.	Value.	Quantity.	Value.
	(1) DEMARCATED STATE FORESTS.		Rs.		Rs.		Rs.		Rs.		Rs.
Ellichpur ...	Bamboos ... ... Nos.	...	...	2,485,368	37,280	...	...	...	..	2,485,368	37,280
	Lac ... ... Tons.	...	...	3	45	...	...	...	..	3	45
	Roots and fruits ... ... ,,	...	...	12	61	...	...	...	...	12	61
	Miscellaneous ... ... ,,	...	...	1	6	...	...	...	..	1	6
					37,392						37,392
Amraoti ...	Grass ... Auction sale	...	...	...	5,584	...	..	...	...	...	5,584
Akola ...	Grass ... Tons	...	...	2,901	3,233	...	...	...	...	2,901	3,233
	Gum ... Auction sale.	...	...	...	25	...	...	...	...	...	25
	Miscellaneous ... Tons.	..	...	43	139	...	..	...	...	43	139
					3,397						3,397
Buldana ...	Grass ... ... Tons.	...	...	4,904	3,131	80	6	...	...	4,984	3,137
	Miscellaneous ... ... ,,	...	...	6	30	...	...	...	...	6	30
					3,161		6				3,167
Basim ...	Bamboos ... ... Nos.	...	...	...	...	*1,200	24	...		1,200	24
	Grass ... ... Tons.	...	...	5,037	5,828	*9	9	..	...	5,046	5,837
	Miscellaneous ... ... ,,	...	...	...	110	...	6	...	...	...	116
					5,938		39				5,977
Wun ...	Bamboos ... .. Nos.	..	...	28,037	588	...	...	...	...	28,037	588
	Grass ... . Tons.	...	...	6,511	3,865	32	16	...	...	6,543	3,881
	Miscellaneous ... ... ,,	...	...	2,737	2,541	...	...	...	...	2,737	2,541
					6,994		16				7,010
	DISTRICT RESERVED AND UNRESERVED FORESTS.										
Ellichp...e-serves only) ...	Grass ... Auction sale.	...	...	...	860	...	...	...	...	...	860
	Roots and fruits ... ... ,,	...	...	...	649	...	...	...	...	...	649
	Leaves ... ... Tons	...	...	25	69	..	...	...	...	25	69
					1,578						1,578
Amraoti ...	Grass ... Tons.	...	...	127	139	...	...	...	...	127	20,654
	Auction sale.	...	...	...	20,515	...	...	...	...	...	
	Leaves ... Tons	..	...	524	1,182	...	...	...	...	524	1,182
	Roots and fruits ... Tons.	...	...	10	56	...	...	...	...	10	56
	Auction sale.	...	...	...	3,162	...	...	...	...	...	3,162
	Gum... ... Auction sale.	...	...	...	213	...	...	...	...	...	213
	Minerals ... ,,	...	...	...	120	...	...	...	...	...	120
	Miscellaneous ... Tons.	...	...	1,118	877	...	...	...	...	1,118	1,012
	Nos.	...	...	8,626	135	...	...	...	...	8,626	
					26,399	...	...	...	...		26,399
Akola ...	Grass ... ... Tons	...	...	517	979	...	...	...	...	517	1,083
	Auction sale.	...	...	...	104	...	...	...	...	...	
	Gum ... ... Auction sale.	...	...	...	5	...	...	...	...	...	5
	Roots and fruits ... ,,	...	...	...	651	...	...	...	...	...	651
	Miscellaneous ... Tons.	...	...	81	217	...	...	...	...	81	217
					1,956	...	...	...	...		1,956
Buldana ...	Grass ... ... Tons.	...	...	1,112	778	...	...	...	...	1,112	778
	Fruits... ... ,,	...	...	380	2,025	...	...	...	..	380	2,025
	Leaves ... ,,	...	...	43	120	...	...	...	..	43	120
	Minerals ... ,,	...	...	10	28	...	...	...	...	10	28
					2,951	...	...	...	...		2,951

*Used for Government purposes.

FORESTS.

ANNUAL FORM No. 55.—*Outturn of Minor Forest Produce during the year* 1891-92.

Division.	Description of produce.		Produce removed or utilized. By Government agency. Quantity.	By Government agency. Value.	By purchasers. Quantity.	By purchasers. Value.	By free grants. Quantity.	By free grants. Value.	By right-holders. Quantity.	By right-holders. Value.	Total. Quantity.	Total. Value.
				Rs.		Rs.		Rs.		Rs.		Rs.
Basim ...	Bamboos	Nos.	...	...	500	10	...	...	...	...	500	10
	Grass	Auction sale.	...	...	...	574	...	...	...	...	...	574
	Miscellaneous	,,	...	...	...	1,824	...	...	...	...	...	1,824
						2,408						2,408
Wun ...	Bamboos	Nos.	...	...	41,600	837	...	...	...	...	41,600	837
	Grass	Tons.	...	...	1,538	841	...	...	..	...	1,538	1,798
		Auction sale.	...	...	...	957	...	...	.	...	...	
	Roots and fruits.	Auction sale.	...	...	...	5,672	...	...	...	...	...	5,672
	Miscellaneous	Tons.	...	...	400	466	...	...	..	...	400	466
						8,773						8,773
Ellichpur (Unreserves only).	Bamboos	Nos,	...	...	681,631	11,070	...	...	...	...	681,631	11,070
	Grass ...	Tons.	...	...	4,585	2,706	...	...	...	...	4,585	2,706
	Roots and fruits	,,	...	...	575	2,379	...	..	...	...	575	2,379
	Lac ...	,,	..	...	15	225	...	...	...	...	15	225
	Leaves ...	,,	...	...	264	710	...	...	...	...	264	710
	Minerals ...	,,	...	...	24	64	...	...	...	...	24	64
	Gum ...	,,	...	...	9	75	...	...	...	...	9	75
	Miscellaneous ...	,,	...	...	4	46	...	...	...	...	4	46
						17,274						17,274
	ABSTRACT.											
	Bamboos ...	1890-91.	...	...	3,196,090	48,181	...	...	...	...	3,196,090	48,181
		1891-92.	...	...	3,237136	49,785	1,200	24	...	...	3,238,336	49,809
	Grass ...	1890-91.	...	...	...	33,315	...	4	...	...	...	33,319
		1891-92.	...	...	...	50,094	...	31	...	...	...	50,125
	Roots and fruits	1890-91.	..	...	...	10,986	...	..	...	...	...	10,986
		1891-92.	...	..	..	14,655	...	...	...	...	...	14,655
	Lac ...	1890-91.	...	...	...	363	...	...	...	...	...	363
		1891-92.	...	...	...	270	...	..	...	...	...	270
	Leaves ...	1890-91.	...	...	...	1,675	...	...	...	...	...	1,675
		1891-92	..	...	...	2,081	...	...	...	...	...	2,081
	Minerals ...	1890-91.	..	...	...	188	...	...	...	...	...	188
		1891-92.	...	...	...	212	...	...	...	...	...	212
	Gum ...	1890-91.	...	...	...	466	...	...	...	...	...	466
		1891-92.	...	...	...	318	...	...	...	...	...	318
	Miscellaneous ...	1890-91.	...	...	..	5,437	...	...	...	...	...	5,437
		1891-92.	...	...	...	6,391	..	6	...	...	...	6,397
	Total ...	1890-91.	...	...	...	1,00,611	...	4	...	...	...	1,00,615
		1891-92.	...	...	...	1,23,806	...	61	...	...	...	1,23,867

FORESTS.

ANNUAL FORM No. 57.—*Abstract showing the Value of Live and Dead Stock for the year* 1891-92.

Description of timber and other produce.	On hand at commencement of the year.			On hand at close of the year.			Difference in value.	
	No.	C.ft.	Value.	No.	C.ft.	Value.	In favor of the year.	Against the year.
			Rs.			Rs.	Rs.	Rs.
Direction Office.								
Surveying and other instruments ...	21	...	490	23	...	484	...	...
Tools	18	...	10	18	...	9	...	...
Office furniture	127	...	495	125	...	525	...	...
Tents	10	...	1,476	8	...	1,100	...	...
Miscellaneous	48	...	85	52	...	100	...	...
Elephant	1	...	2,300	1	...	2,200	...	...
Total ...	225	...	4,856	227	...	4,418	...	438
Ellichpur Division.								
Surveying and other instruments ...	21	...	140	22	...	146	...	...
Tools	754	...	941	861	...	1,148	...	...
Office and rest-house furniture ...	204	...	1,275	389	...	1,854	...	...
Tents	6	...	824	6	...	824	...	...
Bungalows	2	...	8,000	2	...	8,000	...	...
Rest-houses	9	...	9,000	9	...	9,000	...	...
Miscellaneous	248	...	561	248	...	540	...	...
Elephant	1	...	400	1	...	350	...	...
Bullock	1	...	40	1	...	35	...	...
Total ...	1,246	...	21,181	1,539	...	21,897	716	...
Amraoti Division.								
Surveying and other instruments ...	6	...	20	6	...	20	...	...
Tools	51	...	59	51	...	58	...	...
Office furniture	51	...	251	80	...	430	...	...
Tents	3	...	315	3	...	202	...	...
Rest-house	1	...	1,450	1	...	1,450	...	...
Miscellaneous	41	...	58	43	...	60	...	...
Total ...	153	...	2,153	184	...	2,220	67	...
Akola Division.								
Surveying and other instruments ...	1	...	5	5	...	98	...	...
Tools	217	...	...	160	...	221	...	...
Office furniture	57	...	265	57	...	249	...	...
Tents	3	..	298	3	...	268	...	...
Rest-house	...	...	...	1	...	783	...	...
Miscellaneous	68	...	77	69	..	84	...	...
Total ...	346	...	645	295	...	1,685	1,038	...

FORESTS.

ANNUAL FORM No. 57.—*Abstract showing the value of Live and Dead Stock for the year* 1891-92.

Description of timber and other produce.	On hand at commencement of the year.			On hand at close of the year.			Difference in value.	
	No.	C.ft.	Value.	No.	C.ft.	Value.	In favor of the year.	Against the year.
			Rs.			Rs.	Rs.	Rs.
Buldana Division.								
Surveying and other instruments ...	7	...	17	7	...	15	...	...
Tools	98	...	...	100	...	140	...	...
Office furniture	57	...	434	74	...	506	...	...
Tents	4	...	261	5	...	614	...	...
Building	1	...	1,000	1	...	900	...	...
Miscellaneous	87	...	87	92	...	92	...	...
Total ...	254	...	1,799	279	...	2,267	468	...
Basim Division.								
Surveying and other instruments ...	11	...	56	11	...	66	...	...
Tools	220	...	74	223	...	109	...	...
Office furniture	59	...	36	59	...	32	...	...
Tents	3	...	353	3	...	318	...	...
Miscellaneous	101	...	175	82	...	158	...	...
Elephant	1	...	1,030	1	...	978	...	...
Buffalo	...	...	...	1	...	15	...	...
Total ...	395	...	1,724	380	...	1,676	...	48
Wun Division.								
Surveying and other instruments ...	24	...	254	23	...	240	...	...
Tools	91	...	262	90	...	245	...	...
Office furniture	65	...	764	70	...	924	...	...
Tents	3	...	330	3	...	310	...	...
Buildings	5	...	2,000	5	...	1,900	...	...
Miscellaneous	79	...	168	87	...	170	...	...
Elephant *	1	...	475	...	...	...	...	...
Total ...	268	...	4,253	278	...	3,789	...	464
Grand Total ...	2,887	...	36,611	3,182	...	37,950	2,289	950
							1,339	net.

* Died.

FORESTS.

ANNUAL FORM No. 58.—*Preliminary Summary of Revenue and Expenditure of the different Districts during* 1891-92.

Budget Heads.	Direction Office.	Districts.						Total.
		Akola.	Amraoti.	Buldana.	Basim.	Ellichpur.	Wun.	
REVENUE.	Rs. a. p.	Rs. a. p.	Rs. a. p.	Rs. a. p.	Rs a. p.	Rs. a. p.	Rs a. p.	Rs. a. p.
I.—Timber and other produce removed from the forests by Government Agency—								
a. Timber	...	...	...	...	...	...	...	...
b. Firewood and charcoal	...	...	...	...	...	...	...	...
c. Bamboos	...	...	...	...	...	...	...	...
d. Sandal-wood	...	...	...	...	...	...	...	...
e. Grass and other minor produce ...	...	...	...	...	...	...	...	...
II.—Timber and other produce removed from the forests by consumers or purchasers—								
a. Timber	...	4,330 14 0	72 8 3	10,113 10 9	21,246 11 6	1,17,459 9 4	1,967 11 6	1,55,191 1 4
b. Firewood and charcoal	...	16,503 0 4	20,551 14 8	3,295 12 9	3,197 2 3	11,172 1 6	5,223 6 9	59,943 6 3
c. Bamboos	...	...	...	...	10 0 0	48,349 13 6	1,425 7 9	49,785 5 3
d. Grazing and fodder-grass	...	26,766 1 3	54,195 9 3	33,486 9 6	28,336 12 2	15,540 0 9	62,324 7 6	2,20,679 8 5
e. Other minor produce	...	1,036 13 0	5,744 13 10	2,202 14 3	1,933 15 0	4,329 5 9	8,679 4 9	23,927 2 7
III.—Drift and waif wood and confiscated forest produce	...	15 2 0	220 0 3	84 3 0	226 10 3	307 8 0	193 9 6	1,047 1 0
IV.—Revenue from forests not managed by Government—								
a. Duty on foreign timber and other forest produce	...	...	...	...	...	...	...	...
b. Revenue from shared and private forests	...	...	...	...	...	...	...	11 0 0
V.—Miscellaneous —			10 0 0	...	...	1 0 0	...	65 12 11
a. Fines and forfeitures	...	44 7 1	0 14 10	1 0 0	4 11 4	...	14 11 8	529 13 3
b. Refunds	...	52 6 10	5 0 0	...	1 3 0	100 7 0	2 14 0	
c. Other sources	367 14 5							
Total Revenue ...	367 14 5	48,748 12 6	80,800 13 1	49,184 2 3	54,987 1 6	1,97,259 13 10	79,831 9 5	5,11,180 3 0

FORESTS.

ANNUAL FORM No. 58.—*Summary of Revenue and Expenditure during* 1891-92.

Budget Heads.	Direction Office.	Districts.						Total.
		Akola.	Amraoti.	Buldana.	Basim.	Ellichpur.	Wun.	
EXPENDITURE.	Rs. a. p.	Rs. a. p.	Rs. a. p.	Rs. a. p.	Rs. a. p.	Rs. a. p.	Rs. a. p.	Rs. a. p.
A.—CONSERVANCY AND WORKS.								
I.—Timber and other produce removed from the forests by Government Agency—								
a. Timber	...	...	...	...	...	...	...	...
b. Firewood and charcoal	...	...	...	...	...	...	...	...
c. Bamboos	...	...	...	...	...	...	...	...
d. Sandal-wood	...	...	...	...	...	...	...	...
e. Grass and other minor produce ..	...	...	...	...	...	...	...	...
II.—Timber and other produce removed from the forests by consumers or purchasers	...	3,735 10 8	4,471 9 10	6,418 1 9	5,131 8 4	2,205 1 11	10,004 14 11	31,966 15 5
III.—Drift and waif wood and confiscated forest produce.	...	...	...	...	...	...	...	...
IV.—Revenue from forests not managed by Government—								
a. Duty on foreign timber and other forest produce								
b. Revenue from shared and private forests ...	...	...	...	...	...	...	...	...
V.—Rent of leased forests and payments to shareholders in forests managed by Government ...	...	...	...	...	...	20,243 11 2	...	20,243 11 2
VI.—Live stock, stores, tools and plant—								
a. Purchase of cattle	...	...	...	...	15 0 0	...	...	15 0 0
b. Feed and keep of cattle	919 [illegible]	...	...	...	626 13 0	804 0 3	220 6 3	2,570 15 9
c. Purchase of stores, tools and plant ...	217 [illegible] 6	149 14 8	253 7 0	179 6 0	78 9 0	808 2 8	229 9 2	1,916 14 0
VII.—Communications and Buildings—								
a. Roads and bridges ...	...	74 7 0	32 0 0	3 10 0	99 7 6	14,114 15 3	...	14,324 7 9
b. Buildings ...	72 0 0	970 9 6	300 10 0	326 1 6	2 6 4 0	1,759 10 8	744 8 11	4,449 12 7
c. Other works ...	1 2 0	...	21 0 9	...	...	241 6 6	8 6 0	274 15 3
VIII.—Demarcation, improvement and extension of Forests—								
a. Demarcation...	...	522 1 0	421 3 9	421 10 6	269 8 6	305 8 0	504 1 6	2,444 1 3
b. Compensation for land and rights ...	...	...	...	...	...	...	...	...
c. Surveys and working plans	136 3 2	170 4 6	66 4 0	...	301 6 7	11 15 0	216 14 0	902 15 3

FORESTS.

ANNUAL FORM No. 58.—*Summary of Revenue and Expenditure during* 1891 92—continued.

Budget Heads.	Direction Office.	Districts.						Total.
		Akola.	Amraoti.	Buldana.	Basim.	Ellichpur.	Wun.	
EXPENDITURE.—*contd.*	Rs. a. p	Rs. a. p.	Rs. a. p.	Rs. a. p.	Rs. a. p.	Rs. a. p.	Rs. a. p.	Rs. a. p.
CONSERVANCY AND WORKS.—*contd*								
VIII.—Demarcation, improvement, &c.—*contd.*								
d. Sowing and planting	25 0	161 11 7	66 11 7	91 11 0	122 1 8	310 10 0	246 6 3	1,024 15 1
e. Protection from fire	..	686 2 0	474 8 7	377 13 6	1,443 13 4	2,917 13 6	2,225 12 7	8,125 15 6
f. Other works	...	...	...	...	10 7 0	776 1 8	...	786 8 8
IX.—Miscellaneous—								
a. Refunds	...	1 8 0	27 5 6	14 0 0	...	2 12 8	2 12 0	48 5 6
b. Law charges	...	...	...	...	144 0 0	...	0 10 0	144 10 0
c. Other charges	24 6 9	14 12 6	13 15 3	44 3 6	46 15 0	152 2 6	543 13 6	840 5 0
Total A.—Conservancy and Works ...	1,397 0 8	6,487 1 5	6,151 12 3	7,876 9 9	8,565 13 11	44,653 15 1	14,948 3 1	90,080 8 2
B.—ESTABLISHMENT.								
I.—Salaries—								
a. Conservators	13,210 11 5	...	...	...	...	...	...	13,210 11 5
b. Superior officers	233 14 0	2,053 3 7	2,411 12 7	3,747 1 10	3,737 1 6	11,381 2 1	3,090 0 0	26,654 3 7
c. Subordinate Forest and Depôt establishments ...	...	3,597 10 7	1,759 3 6	2,580 15 5	4,349 9 10	16,270 14 0	4,155 5 9	32,714 1 1
d. Office establishments	3,428 3 7	784 7 8	956 3 0	971 4 7	759 8 2	2,449 3 9	970 9 6	10,319 8 3
e. Deputation and special allowances ...	...	...	...	510 0 0	645 2 7	...	...	1,155 2 7
II.—Travelling allowances—								
a. Conservators	1,977 12 0	...	...	...	...	...	...	1,977 12 0
b. Superior officers	95 8 0	567 2 8	638 2 0	828 8 0	949 0 8	3,094 4 0	750 10 8	6,923 4 0
c. Subordinate Forest and Depôt establishments ...	...	721 4 6	410 11 10	729 12 0	488 2 8	2,057 9 4	591 11 4	4,999 3 8
d. Office establishments	232 6 10	88 9 6	99 4 0	220 15 4	74 1 8	304 15 0	60 9 4	1,080 13 8
III.—Contingencies—								
a. Stationery	55 4 9	8 12 3	25 9 3	13 12 6	17 1 0	83 3 3	40 1 9	243 12 9
b. Carriage of tents and records ...	970 15 3	452 13 0	570 11 10	459 8 7	358 11 3	823 9 7	590 13 4	4,227 2 10
c. Rents, rates and taxes	...	...	180 0 0	...	...	500 0 0	180 0 0	860 0 0
d. Pay of police guards	...	...	...	...	...	...	...	...
e. Official postage	327 5 6	129 9 6	35 10 0	86 2 0	90 11 6	330 14 6	48 4 6	1,048 9 6
f. Sundries	247 2 10	196 3 3	139 7 10	164 15 10	178 14 0	653 5 10	264 13 10	1,844 15 5
Total B.—Establishments ..	20,779 4 2	8,099 12 6	7,227 1 10	10,313 0 1	11,648 0 10	37,949 1 4	10,743 0 0	1,07,259 4 9
Grand Total of Expenditure ...	22,176 4 10	15,086 13 11	13,378 14 1	18,189 9 10	20,213 14 9	82,603 0 5	25,691 3 1	1,97,339 12 11

(Signed) W. DOBBIE,
Comptroller, Hyderabad.

FORESTS.

Dr. Cr.

ANNUAL FORM No. 59.—*Preliminary Account Current of the Forest Department, Hyderabad Assigned Districts, for the year* 1891-92.

B-180—e

	Rs. a. p.	Rs. a. p.		Rs. a. p.	Rs. a. p.
To Cash Balance ...		...	By II.—*Forests (Expenditure as per annual summary) Form No. 58.*	1,97,339 12 11	
„ IX.—*Forests (Revenue as per annual summary) Form No. 58.*	5,11,180 3 0		„ *Forest Cash Remittances, Local:—*		
„ *Service Funds*	13610 0		Remittances to treasuries	5,11,135 12 8	
„ *Forest Cash Remittances, Local:—* ...			Inter-divisional transfers	426 7 0	
Forest cheques drawn	1,98,228 14 2		Cancelled cheques	165 0 0	
Inter-divisional transfers	426 7 0	7,09,972 2 2			7,09,067 0 7
„ *Advances recoverable*	89,728 14 6		„ *Advances recoverable*	92,210 8 1	
„ *Suspense*	...		„ *Suspense*	...	
„ *Cash Recoveries*	130 0 7		„ *Cash Recoveries*	130 0 7	
„ *Account Current (Other Governments)* ...	2,154 12 10		„ *Account Current (Other Governments)* ...	626 0 8	
„ *Inter-departmental transfers*	309 11		„ *Inter-departmental transfers*	261 15 7	
		92,323 7 4			93,228 8 11
			„ *Cash Balance*	...	
Total ...		8,02,295 9 6	Total ...		8,02,295 9 6

W. DOBBIE,
Comptroller, Hyderabad.

FORESTS.

ANNUAL FORM No. 60.—*Revenue received and Outstandings on account of Revenue during* 1891-92.

Division.	Particulars.	Outstandings at commencement of year.	Value of sales and other revenue during year.	Total.	Amount realised during year.	Balance due to the Department at end of year.
		Rs.	Rs. a. p.	Rs. a. p.	Rs. a. p.	Rs.
Direction ...	Miscellaneous other sources.	...	367 14 5	367 14 5	367 14 5	...
Ellichpur ...	Timber and other produce.	...	1,97,259 13 10	1,97,259 13 10	1,97,259 13 10	...
Amraoti ...	Do. ...	...	80,800 13 1	80,800 13 1	80,800 13 1	...
Akola ...	Do. ...	...	48,748 12 6	48,748 12 6	48,748 12 6	...
Buldana ...	Do. ...	...	49,184 2 3	49,184 2 3	49,184 2 3	...
Basim ...	Do. ...	...	54,987 1 6	54,987 1 6	54,987 1 6	...
Wun ...	Do. ..	...	79,831 9 5	79,831 9 5	79,831 9 5	...
	Total ...	...	5,11,180 3 0	5,11,180 3 0	5,11,180 3 0	...

ANNUAL FORM No. 61.—*Outstandings and Liabilities on account of Contractors and Disbursers for* 1891-92.

Division.	Department Debtor.			Department Creditor.			Balance due.	
	At commencement of year.	Recoveries in cash and value of supplies and work done during year.	At close of year.	At commencement of year.	Payments made during year.	At close of year.	To Department (outstandings.)	By Department (liabilities).
	Rs. a. p.	Rs. a. p.	Rs. a. p.	Rs. a. p.	Rs. a. p.	Rs. a. p.	Rs. a. p.	
Akola Division.	..	11,181 3 7	11,181 3 7	790 14 7	10,875 11 7	11,666 10 2	485 6 7	...
Amraoti „	...	8,674 4 4	8,674 4 4	836 11 2	9,197 13 1	10,034 8 3	1,360 3 11	...
Basim „	...	13,402 1 3	13,402 1 3	323 7 11	14,120 14 2	14,444 6 1	1,042 4 10	...
Buldana „	...	11,441 13 10	11,441 13 10	1,565 4 4	11,141 5 5	12,706 9 9	1,264 11 11	...
Direction „	..	1,873 12 5	1,873 12 5	132 3 5	1,752 15 11	1,885 3 4	11 6 11	...
Ellichpur „	...	30,197 8 2	30,197 8 2	1,285 11 5	31,978 8 8	33,264 4 1	3,066 11 11	...
Wun „	...	12,663 2 11	12,663 2 11	753 14 6	12,893 3 3	13,647 1 9	983 14 10	...
Total ...	...	*89,433 14 6	89,433 14 6	5,688 3 4	*91,960 8 1	97,648 11 5	8,214 12 11	...

* Difference between the figures of this statement and those of Form No. 59 against advance recoverable (Receipts and Payments) is due to omission, Book advances being included in the latter.

W. DOBBIE,
Comptroller, Hyderabad.

ANNUAL FORM No. 62.—*Financial results of the year* 1891-92.

Division.	Timber and other produce removed from the forests by Government agency.		Other revenue.		Formation, protection, and improvement of forests.	Total.	
	Receipts.	Charges.	Receipts.	Charges.	Charges.	Receipts.	Charges.
	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.
Direction	...	...	368	14,179	7,997	368	22,176
Ellichpur	...	...	1,97,260	48,093	34,510	1,97,260	82,603
Amraoti	...	...	80,801	9,267	4,112	80,801	13,379
Akola	...	...	48,749	9,183	5,904	48,749	15,087
Buldana	...	...	49,184	12,753	5,437	49,184	18,190
Basim	...	...	54,987	12,163	8,051	54,987	20,214
Wun	...	..	79,831	16,692	8,999	79,831	25,691
Total ...	...	...	5,11,180	1,22,330	75,010	5,11,180	1,97,340

APPENDIX A.—*Cattle grazed in the Demarcated State Forests and District Reserved and Unreserved Forests during the year* 1891-92.

Division.	Districts, &c.	Year.	Camels.	Buffaloes.	Cows and bullocks.	Sheep and goats.	Total.	Revenue.
		(1)—Demarcated State Forests.						
			No.	No.	No.	No.	No.	Rs.
Ellichpur ...	Ellichpur	1891-92 ...	...	...	...	...	...	...
		1890-91 ...	...	...	...	...	...	...
Amraoti ...	Amraoti	1891-92 ...	...	...	4	...	4	3
		1890-91 ...	...	...	...	...	...	...
Akola ...	Akola	1891-92 ..	..	624	3,230	684	4,538	1,166
		1890-91 ...	...	619	3,046	656	4,321	1,112
Buldana ...	Buldana	1891-92 ...	...	1,563	19,337	...	20,900	5,616
		1890-91 ..	...	681	7,977	...	8,658	2,335
Basim ...	Basim	1891-92 ...	...	389	8,675	63	9,127	2,365
		1890-91 ...	..	27	1,987	...	2,014	510
Wun ...	Wun	1891-92 ...	...	884	13,542	...	14,426	3,828
		1890-91 ...	...	...	...	...	...	...
	Total ...	1891-92 ...	...	3,460	44,788	747	48,995	12,978
		1890-91	...	1,327	13,010	656	14,993	3,957
		(2)—District Reserved and Unreserved Forests.						
Ellichpur ...	*(a) District Reserves only.*							
	Bairam grazing tract, Ellichpur Taluk.	1891-92 ..	...	1,209	8,921	4,522	*a* 14,652	*a* 2,518
		1890-91 ...	...	1,262	9,014	2,689	*b* 12,965	*b* 2,697
	Woods in Ellichpur and Daryapur Taluks.	1891-92 ...	7	1,917	7,291	1	*a* 9,216	...
		1890-91 ...	...	2,317	8,019	...	*b* 10,336	...
	(b) District Unreserves only.							
	Melghat (Ellichpur) and Betul (Central Provinces).	1891-92 ..	8	7,333	21,263	3,597	*c* 32,201	*c* 9,456
		1890-91 ...	...	5,503	2[illegible]	[illegible]	*d* 29,187	*d* 8,806
	Ellichpur and Daryapur Taluks.	1891-92 ..	20	5,315	42,880	29,539	[illegible]7,754	...
		1890-91 ...	65	5,778	37,542	32,694	*d* 76,079	...
	Akot and Jalgaon Taluks of Akola.	1891-92 ...	1	2,393	32,602	5,719	*c* 40,715	...
		1890-91 ...	6	2,581	29,789	5,934	*d* 38,310	..
	Total ...	1891-92 ...	36	18,167	112,957	43,378	174,538	11,974
		1890-91 ..	71	17,441	105,005	44,360	166,877	11,503
Amraoti ...	Amraoti	1891-92 ...	7	31,098	127,504	78,392	237,001	27,955
		1890-91 ...	4	31,427	129,429	75,712	236,572	28,439
Akola ...	Akola	1891-92 ...	...	14,849	95,651	39,808	150,308	21,284
		1890-91 ...	...	14,841	92,566	37,159	144,566	20,596
Buldana ...	Buldana	1891-92 ...	...	19,451	126,352	116,040	261,843	23,961
		1890-91 ...	...	19,075*	127,270*	108,551	254,896*	23,354
Basim ...	Basim	1891-92 ...	...	16,425	118,509	31,081	166,015	19,599
		1890-91 ...	..	18,042	144,761	34,211	197,014	23,808
Wun ...	Wun	1891-92 ...	3	52,747	272,162	90,074	414,986	52,834
		1890-91 ...	...	53,215	281,661	85,582	420,458	53,860
	Total ...	1891-92 ...	46	152,737	853,135	398,773	1404,691	1,57,607
		1890-91 ...	75	154,041	880,692	385,575	1420,383	1,61,560
	Totalof all Forests...	1891-92 ...	46	156,197	897,923	399,520	1453,686	1,70,585
		1890-91 ...	75	155,368	893,702	386,231	1435,376	1,65,517

* The figures in the printed report for 1890-91 were wrong.

APPENDIX B(1).—*Statement of Expenditure incurred in the Forest Department on Roads in the Ellichpur Division during the years* 1874-75 *to* 1891-1892 *inclusive.*

Name of reserve.	Name of road.	No. of miles.	Total expenditure from 1874–75 to 1890–91.		Expenditure in 1891–92.		Total expenditure.	
			Construction.	Repairs.	Construction.	Repairs.	Construction.	Repairs.
			Rs.	Rs.	Rs.	Rs.	Rs.	Rs.
Bairagarh	Sembadoh-Biba ...	37	12,572	6,435	..	506	12,572	6,941
	Sembadoh-Makhla ...	7	5,407	947	...	122	5,407	1,069
	Sembadoh-Chikalda ...	17	19,029	5,502	...	288	19,029	5,790
	Raipur-Patia ...	18	10,502	1,097	...	248	10,502	1,345
	Makhla-Biba ...	25	15,000	1,004	...	774	15,000	1,778
	Raipur-Jaridah ...	16	8,634	396	...	208	8,634	604
	Pili-Kolkaz ...	5	...	655	...	103	...	758
	Chaorakund-Butrum ...	12	3,638	151	...	209	3,638	360
	Rangobeli-Chopan ...	9	3,971	...	...	111	3,971	111
	Kuapati-Mangia ...	6½	..	...	1,450	...	1,450	...
	Malur-Dahsipati ...	7	...	...	2,682	...	2,682	...
	Hatru-Butrum ...	8	...	...	1,604	...	1,604	...
	Chunkhari-Karimal ...	3	...	...	457	..	457	...
	Footpaths ...	...	...	...	...	70	...	70
Gugamal.	Chikalda-Bandum ...	36	12,213	3,606	...	354	12,213	3,960
	Kolkaz-Rangrao-Churni.	12	3,705	2,012	...	...	3,705	2,012
	Kund-Sakri ...	5	2,193	...	1,338	105	3,531	105
	Rangrao-Churni-Koha.	5	...	...	1,827	119	1,827	119
	Rangrao-Churni Dahsipati.	13	...	...	...	172	...	172
	Karas roads ...	...	...	12	...	53	...	66
Melghat Unreserved Forests.	Karas roads ...	...	...	2,808	...	1,315	...	4,123
	Motha road ...	21	2,000*	...	...	...	2,000	...
	Total ...	...	98864	24,626	9,358	4,757	1,08,222	29,383

*Grant by Forest Department.

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APPENDIX B (2).—*Statement showing the Expenditure in the Forest Department on Buildings in the Ellichpur Division from* 1874-75 *to* 1891-92 inclusive.

Name of range.	Name and description of building.	Total expenditure from 1874-75 to 1890-91.		Expenditure in 1891-92.		Total expenditure.	
		Construction.	Repairs.	Construction.	Repairs.	Construction.	Repairs.
		Rs. a. p.	Rs. a. p.	Rs. a. p.	Rs. a. p.	Rs. a. p.	Rs. a. p.
	Thanas.						
Bairagarh.	Makhla ...	95 0 0	57 1 5	...	4 0 0	95 0 0	61 1 5
	Sirasbau ...	77 5 0	42 9 0	...	4 2 0	77 5 0	46 11 0
	Raipur ...	159 9 3	48 11 0	...	7 8 0	159 9 3	56 3 0
	Pili ...	50 0 0	63 2 9	...	4 14 0	50 0 0	68 0 9
	Abapur ...	42 2 0	25 15 9	...	...	42 0 0	25 15 9
	Awagarh ...	50 0 0	53 8 0	...	3 15 0	50 0 0	57 7 0
	Harisal ...	71 12 0	45 5 0	...	4 0 0	71 12 0	49 5 0
	Hatru ...	50 0 0	45 15 0	...	4 0 0	50 0 0	49 15 0
	Rangobeli ...	57 10 0	64 6 0	...	4 0 0	57 10 0	68 6 0
	Patia ...	56 0 0	46 4 0	...	4 0 0	56 0 0	50 4 0
	Biba ...	67 2 8	45 13 0	...	4 0 0	67 2 8	49 13 0
	Somitha ...	56 5 2	45 9 0	...	4 0 0	56 5 2	49 9 0
	Jambu ...	40 10 0	17 6 0	...	...	40 10 0	17 6 0
	Ambadoh ...	57 8 0	35 7 0	...	3 12 0	57 8 0	39 3 0
	Shed for tools at Raipur ...	24 8 0	24 2 6	...	...	24 8 0	24 2 6
	Sembadoh ...	666 0 0	127 15 4	...	...	666 0 0	127 15 4
	Cattle pound at Sembadoh ...	50 0 0	11 14 6	...	7 8 0	50 0 0	19 6 6
	Kolkaz ...	50 0 0	24 10 0	...	3 15 0	50 0 0	28 9 0
	Chaorakund ...	50 0 0	36 13 0	...	4 0 0	50 0 0	40 13 0
	Borda ...	...	40 15 0	...	4 0 0	...	44 15 0
	Butram ...	...	2 4 0	...	...	...	2 4 0
	Jaridah ...	...	2 10 0	...	2 1 0	...	4 11 0
	Total...	1,771 8 1	908 5 3	...	78 11 0	1,771 8 1	982 0 3
	Rest Houses.						
	Makhla ...	...	847 11 11	...	18 7 0	...	866 2 11
	Hatru ...	100 0 0	39 6 0	...	...	100 0 0	39 6 0
	Kolkaz ...	1,550 0 0	35 15 0	...	73 12 6	1,550 0 0	109 11 6
	Makla observatory	449 4 7	40 0 0	...	...	449 4 7	40 0 0
	Raipur ...	1,550 0 0	18 0 0	...	95 12 0	1,550 0 0	113 12 0
	Jaridah ...	1,550 0 0	...	...	88 5 6	1,550 0 0	88 5 6
	Chaorakund ...	1,550 0 0	...	...	32 9 0	1,550 0 0	32 9 0
	Total...	6,749 4 7	981 0 11	...	308 14 0	6,749 4 7	1,289 14 11
	Grand Total of Bairagarh Reserve	8,520 12 8	1,889 6 2	...	382 9 0	8,520 12 8	2,271 15 2
	Thanas.						
Gugamal	Dhakna ...	60 0 0	23 4 0	..	4 8 0	60 0 0	27 12 0
	Gurgipati ...	10 0 0	2 0 0	...	...	10 0 0	2 0 0
	Darkot ...	15 0 0	...	...	...	15 0 0	...
	Patulda ...	65 1 0	23 8 0	...	4 2 0	65 1 0	27 10 0
	Tarubunda ...	56 0 0	23 14 6	...	4 2 0	56 0 0	28 0 6

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APPENDIX B (2).—*Statement showing the Expenditure in the Forest Department on Buildings in the Ellichpur Division from* 1874-75 *to* 1891-92 *inclusive*—continued.

Name of range.	Name and description of building.	Total expenditure from 1874-75 to 1890-91.		Expenditure in 1891-92.		Total expenditure.	
		Construction.	Repairs.	Construction.	Repairs.	Construction.	Repairs.
		Rs. a. p.	Rs. a. p.	Rs. a. p.	Rs. a. p.	Rs. a. p.	Rs. a. p.
Gugamal—continued.	*Thanas*—continued.						
	Khatkali ...	7 0 0	...	...	...	7 0 0	...
	Modra ...	5 0 0	...	...	...	5 0 0	...
	Pirkheda ...	3 0 0	...	...	...	3 0 0	...
	Koha ...	58 0 0	21 3 0	...	4 0 0	58 0 0	25 3 0
	Chiladari ...	60 0 0	21 8 0	...	4 2 0	60 0 0	25 10 0
	Bairat ...	54 0 0	16 14 0	...	4 0 6	54 0 0	20 14 6
	Asalwara ...	50 0 0	21 7 0	...	4 0 0	50 0 0	25 7 0
	Dollar ...	50 0 0	21 13 0	...	4 2 0	50 0 0	25 15 0
	Bari ...	50 0 0	21 13 0	...	3 12 0	50 0 0	25 9 0
	Store house at Asalwara ...	7 8 0	...	...	...	7 8 0	...
	Do at Bairat ...	17 8 0	...	...	...	17 8 0	...
	Rangrao Churni...	56 6 0	8 0 0		4 2 0	56 6 0	12 2 0
	Pastalai ...	...	2 8 0	...	...	...	2 8 0
	Arao ...	...	4 0 0	...	...	...	4 0 0
	Total...	624 7 0	211 12 6	...	40 14 6	624 7 0	252 11 0
	Rest Houses.						
	Dhakna ...	1,550 0 0	69 13 6	...	80 4 6	1,550 0 0	150 2 0
	Rangrao Churni...	1,550 0 0	9 12 6	...	7 3 0	1,550 0 0	16 15 6
	Total...	3,100 0 0	79 10 0	...	87 7 6	3,100 0 0	167 1 6
	Grand Total of Gungamal Reserve..	3,724 7 0	291 6 6	...	128 6 0	3,724 7 0	419 12 6
Chikalda.	*Rest Houses.*						
	Conservator's bungalow ...	...	7,778 15 4		499 0 3	...	8,277 15 7
	Peach grove ...	282 0 0	1,649 0 10		399 2 1	282 0 0	2,048 2 11
	Elephant's ratab hut ...	3 12 0	...	...	...	3 12 0	...
	Shed for elephant.	33 3 0	...	...	35 0 0	33 3 0	35 0 0
	Thana.						
	Chikalda ...	...	...	100 0 0	...	100 0 0	...
	Grand Total of Chikalda Reserve.	318 15 0	9,428 0 2	100 0 0	933 2 4	418 15 0	1,361 2 6

APPENDIX B(2).—*Statement showing the Expenditure in the Forest Department on Buildings in the Ellichpur Division from* 1874-75 *to* 1891-92 *inclusive*—concluded.

Name of range.	Name and description of building.	Total expenditure from 1874-75 to 1890-91		Expenditure in 1891-92.		Total expenditure.	
		Construction.	Repairs.	Construction.	Repairs.	Construction.	Repairs.
		Rs. a. p.	Rs. a. p.	Rs. a. p.	Rs. a. p.	Rs. a. p.	Rs. a. p.
	Thanas—concluded.						
Melghat Unreserved Forest.	Nimkhera ...	35 8 0	9 1 0	...	...	35 8 0	9 1 0
	Jhiri ...	77 4 0	126 9 0	...	10 0 0	77 4 0	136 9 0
	Gowlkhera ...	32 0 0	7 0 0	...	...	32 0 0	7 0 0
	Dhamangaon ...	161 11 9	179 3 3	...	9 8 0	161 11 9	188 11 3
	Sadarpur ...	31 1 0	...	...	...	31 1 0	...
	Borala ...	43 10 6	80 10 6	...	5 0 0	43 10 9	85 10 6
	Deogao ...	22 7 4	80 2 6	...	5 0 0	22 7 4	85 2 6
	Kharpi ...	45 4 0	66 6 0	...	13 0 0	45 4 0	79 6 0
	Jamod ...	10 2 0	5 6 0	...	...	10 2 0	5 6 0
	Kasod ...	296 13 0	161 4 3	...	14 5 0	296 13 0	175 9 3
	Wagdoh ...	66 4 9	163 7 3	...	8 3 0	66 4 9	171 10 3
	Bairam ...	95 12 9	145 1 6	...	9 12 0	95 12 9	154 13 6
	Wagholi ...	30 7 0	108 4 6	...	5 0 0	30 7 0	113 4 6
	Kalamkhar ...	59 1 6	103 5 3	...	5 0 0	59 1 6	108 5 3
	Sonala ...	31 14 0	...	...	...	31 14 0	...
	Khirkheda ...	20 0 0	90 4 6	...	6 10 0	20 0 0	96 14 6
	Basali ...	527 12 0	110 6 0	...	9 12 0	527 12 0	120 2 0
	Ambadi ...	38 15 3	119 14 0	...	7 9 0	38 15 3	127 7 0
	Chinchona ...	35 7 0	119 8 6	...	7 2 6	35 7 0	126 11 0
	Malhara ...	848 13 6	58 2 0	...	7 4 0	848 13 6	65 6 0
	Kamod ...	39 0 0	34 10 0	...	...	39 0 0	34 10 0
	Kajaldoh ...	29 0 0	62 14 0	...	6 9 0	29 0 0	69 7 0
	Hut for Malhara peon ...	3 0 0	7 0 0	...	...	3 0 0	7 0 0
	Suserda ...	20 0 0	38 8 0	...	7 0 0	20 0 0	45 8 0
	Pingli ...	52 0 0	47 11 6	...	11 8 0	52 0 0	59 3 6
	Saolikheda ...	...	8 0 0	...	...	...	8 0 0
	Hut at Ellichpur Cantonment wood bazaar.	4 8 0	...	...	...	4 8 0	...
	Popatkhera ...	653 0 0	15 2 0	...	10 4 0	[illegible] 0 0	25 6 [illegible]
	Total ...	3,310 13 4	1,947 13 6	...	158 6 6	[illegible]	[illegible] 4 0
	Open Blocks.						
	3 nakas, names not given ...	26 10 0	...	...	...	26 10 0	...
	Jambu ...	9 0 0	...	...	...	9 0 0	...
	Tarobanda ...	4 4 0	...	...	...	4 4 0	...
	Borekhera ...	6 0 0	...	...	...	6 0 0	...
	Chakerda ...	10 0 0	...	...	...	10 0 0	...
	Churni ...	5 0 0	...	...	...	5 0 0	...
	Silona ...	7 0 0	...	...	...	7 0 0	...
	Darkot ...	6 0 0	...	...	...	6 0 0	...
	Katia ...	8 0 0	...	...	...	8 0 0	...
	Gurguti ...	11 0 0	...	...	...	11 0 0	...
	Total ...	92 14 0	...	...	...	92 14 0	...
	Grand Total of Melghat Unreserved Forests...	3,403 11 4	1,947 13 6	...	158 6 6	3,403 11 4	2,106 4 0
	Grand Total of all Expenditure.	15,967 14 0	13,556 10 4	100 0 0	1,602 7 10	16,067 14 0	15,159 2 2

APPENDIX B(2-1).—*Statement showing the Expenditure in the Forest Department on Buildings in the Amraoti Division from* 1886-87 to 1891-92.

Name of range.	Name and description of building.	Total expenditure from 1886-87 to 1890-91.		Expenditure in 1891-92.		Total expenditure.	
		Construction.	Repairs.	Construction.	Repairs.	Construction.	Repairs.
	Rest Houses.	Rs. a. p.	Rs. a. p.	Rs. a. p.	Rs. a. p.	Rs. a. p.	Rs. a. p.
Chirodi ...	Pohra	1,602 3 2	42 11 0	...	87 7 0	1,602 3 2	130 2 0
	Thanas.						
Chirodi ...	Pohra	50 0 0	27 3 0	...	10 0 0	50 0 0	37 3 0
	Sangwa	50 0 0	17 0 0	...	12 3 0	50 0 0	29 3 0
	Wadali	...	...	50 0 0	...	50 0 0	...
	Bhankheda ...	...	...	50 0 0	...	50 0 0	...
Mehdari ...	Mehdari ...	50 0 0	...	7 11 0	...	50 0 0	7 11 0
District Reserved Forests.	Raperi	50 0 0	43 0 0	...	10 0 0	50 0 0	53 3 0
	Total ...	1,802 3 2	137 12 0	100 0 0	119 10 0	1,902 3 2	257 6 0

APPENDIX B(2-2).—*Statement showing the Expenditure in the Forest Department on Buildings in the Buldana Division from* 1877-78 *to* 1891-92.

Name of range.	Name and description of building.	Total expenditure from 1877-78 to 1890-91.		Expenditure in 1891-92.		Total expenditure.	
		Construction.	Repairs.	Construction.	Repairs.	Construction.	Repairs.
	Thanas.	Rs. a. p.	Rs. a. p.	Rs. a. p.	Rs. a. p.	Rs. a. p.	Rs. a. p.
Gerumatergaon.	Warwant ...	65 0 0	23 7 0	...	...	65 0 0	23 7 0
	Karwand ...		34 2 0	...	...		34 2 0
	Matergaon ...		18 8 0	...	...		18 8 0
	Botha... ...	246 0 0	63 0 0	...	...	246 0 0	63 0 0
	Borkhera ...		12 0 0	...	...		12 0 0
	Kawargaon ...		12 0 0	...	...		12 0 0
	Total ...	311 0 0	163 1 0	...	...	311 0 0	163 1 0
Amdari.	Kurah	37 9 0	19 13 8	...	...	37 9 0	19 13 8
	Khamkheir ...	38 0 0	19 12 8	...	...	38 0 0	19 12 8
	Girda	41 3 0	...	...	12 8 0	41 3 0	12 8 0
	Da... ...	50 0 0	5 8 0	...	17 0 0	50 0 0	22 8 0
	Total ...	166 12 0	45 2 4	...	29 8 0	166 12 0	74 10 4
Buld...	...fice ..	1,050 15 5	94 7 4	...	225 0 0	1,050 15 5	319 7 4
	Grand Total ...	1,528 11 5	302 10 8	...	254 8 0	1,528 11 5	557 2 8

APPENDIX B (2-3).—*Statement showing the Expenditure in the Forest Department on Buildings in the Wun Division from* 1881-82 *to* 1891-92.

Name of range.	Name and description of building.	Total expenditure from 1881-82 to 1890-91.		Expenditure in 1891-92.		Total expenditure.	
		Construction.	Repairs.	Construction.	Repairs.	Construction.	Repairs.
	Thanas.	Rs. a. p.	Rs. a. p.	Rs. a. p.	Rs. a. p.	Rs. a. p.	Rs. a. p.
Pathrot ...	Pathrot	127 0 0	44 0 0	...	10 0 0	127 0 0	54 0 0
Kelapur ...	Sunna	203 0 0	32 0 0	...	6 0 0	203 0 0	38 0 0
Gondwakri ...	Yellabara ...	19 0 0	13 0 0	...	2 0 0	19 0 0	15 0 0
Khorad ...	Hiwri	42 0 0	20 0 0	...	...	42 0 0	20 0 0
Kelapur ..	Mangi	10 0 0	...	...	...	10 0 0	...
Yeotmal ...	Yeotmal ...	..	...	150 0 0	...	150 0 0	...
	Total ...	401 0 0	109 0 0	150 0 0	18 0 0	551 0 0	127 0 0
	Rest Houses.						
Pathrot ...	Pathrot	1,874 0 0	71 0 0	...	17 0 0	1,874 0 0	88 0 0
Kelapur ...	Savrgaon ...	...	...	150 0 0	...	150 0 0	...
Khorad ...	Pardi	...	...	257 0 0	...	257 0 0	...
	Total ...	1,874 0 0	71 0 0	407 0 0	17 0 0	2,281 0 0	88 0 0
	Grand Total ..	2,275 0 0	180 0 0	557 0 0	35 0 0	2,832 0	215 0 0

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APPENDIX B (3).—*Statement showing the Expenditure of the Forest Department on Wells, Tanks, and Jhiras in the Ellichpur Division from* 1874-75 *to* 1891-92 *inclusive.*

Name of range.	Wells, tanks, and jhiras.	Total expenditure from 1874-75 to 1890-91.		Expenditure in 1891-92.		Total expenditure.	
		Construction.	Repairs.	Construction.	Repairs.	Construction.	Repairs.
	Wells.	Rs. a. p.	Rs. a. p.	Rs. a. p.	Rs. a. p.	Rs. a. p.	Rs. a. p.
Bairagarh Reserve.	Makhla 3 ...	64 4 0	31 8 0	...	3 0 0	64 4 0	34 8 0
	Rakia 1 ...	...	15 6 0	...	...	...	15 6 0
	Borkeri 1 ...	...	6 9 0	...	...	...	6 9 0
	Sembadoh 1 ...	896 14 0	3 6 6	...	1 12 0	896 14 0	5 2 6
	Suaji 1 ...	...	5 7 0	...	...	...	5 7 0
	Surwar 1 ...	...	13 15 0	...	1 14 0	..	15 13 0
	Bhipoal 1 ..	...	9 12 0	...	1 5 0	...	11 1 0
	Bhosikhera 1 ...	...	12 12 0	...	...	...	12 12 0
	Charpi 1 ...	...	11 15 0	...	0 9 0	...	12 8 0
	Chourakund 2 ...	311 4 0	3 2 0	...	3 0 0	311 4 0	6 2 0
	Haotru 1 ..	17 4 0	8 11 0	...	1 14 0	17 4 0	10 9 0
	Harisal 1 ...	10 0 0	3 2 0	...	4 0 0	10 0 0	7 2 0
	Jamboo 1 ...	10 0 0	7 13 0	...	1 8 0	10 0 0	9 5 0
	Raipur 1 ...	379 12 0	17 8 0	...	1 8 0	379 12 0	19 0 0
	Don i 1 ...	...	6 12 0	...	...	...	6 12 0
	Khapra 1 ..	...	11 1 0	...	1 2 0	...	12 3 0
	Kumbi 1 ...	...	7 11 0	...	1 8 0	...	9 3 0
	Bodun 1 ...	80 0 0	1 4 0	...	1 4 0	80 0 0	2 8 0
	Abapur 1 ...	...	1 8 0	...	..	...	1 8 0
	Jodkawa 1 ...	...	0 12 0	...	...	...	0 12 0
	Khakra 1 ...	...	0 15 0	...	...	...	0 15 0
	Kolkaz 1 ...	210 0 0	1 12 0	...	2 0 0	210 0 0	3 12 0
	Jarida 1 ...	170 0 0	...	...	0 9 0	170 0 0	0 9 0
	Total ...	2,149 6 0	182 9 6	...	26 13 0	2,149 6 0	209 6 6
	Sati tank ...	...	366 15 1	...	...	...	366 15 1
	Total ...	2,149 6 0	549 8 7	...	26 13 0	2,149 6 0	576 5 7
	Wells.						
Gugamal Reserve.	Patulda 1 ...	10 0 0	3 0 0	...	2 13 0	10 0 0	5 13 0
	Dhakna 1 ...	270 0 0	...	...	...	270 0 0	...
	Rangra Charni 1 ...	201 6 0	...	...	...	201 6 0	...
	Jhiras						
	Dhargarh ...	...	11 10 9	...	...	...	11 10 9
	Tarobanda ...	10 0 0	...	...	...	10 0 0	...
	Gugamal ...	105 8 0	...	...	...	105 8 0	...
	Chiladari ...	19 12 0	...	...	...	19 12 0	...
	Koilari ...	2 0 0	...	...	...	2 0 0	...
	Total ...	618 10 0	14 10 9	...	2 13 0	618 10 0	17 7 9
	Wells.						
Melghat Unreserved Forests.	Wasali ...	576 8 0	...	...	...	576 8 0	...
	Bairam ...	20 0 0	7 1 9	...	...	20 0 0	7 1 9
	Kajaldoh ...	3 0 0	...	...	...	3 0 0	...
	Jhiri ...	270 0 0	7 0 0	...	...	270 0 0	7 0 0
	Chinchona ...	...	3 0 0	...	...	...	3 0 0
	Jhiras.						
	Khatkali ..	...	6 12 0	...	...	...	6 12 0
	Jhiri ...	...	7 0 0	...	...	...	7 0 0
	Total ...	869 8 0	30 13 9	...	...	869 8 0	30 13 9
	Grand Total ...	3,637 8 0	595 1 1	...	29 10 0	3,637 8 0	624 11 1

APPENDIX C.

Statement of expenditure incurred in the Public Works Department on Roads and Tanks in the Melghat, Ellichpur Division, during the year 1874-75 to 1891-92 inclusive.

	Total expenditure from 1874-75 to 1890-91.			Exfenditure in 1891-92.			Total expenditure.		
I.—*Roads.*	Rs.	a.	p.	Rs.	a.	p.	Rs.	a.	p.
Ellichpur-Pili road ...	3,38,484	0	0	...			3,38,484	0	0
Ghatang-Chikalda road ...	21,425	0	0	...			21,425	0	0
Gugamal Forest road ...	4,19,000	0	0	49,969	2	6	4,59,969	2	6
Pili-Kalamkhar road ...	3,500	0	0	...			3,500	0	0
Total ...	7,82,409	0	0	40,969	2	6	8,23,378	2	6
II.—*Anicuts.*									
Burudghat	2,265	1	11	...			2,265	1	11
Silona	1,905	0	3	...			1,905	0	3
Bori	1,292	12	2	...			1,292	12	2
Motha	1,025	0	9	...			1,025	0	9
Pastalai	914	1	4	...			914	1	4
Baramtana	1,527	1	2	...			1,527	1	2
Telghat	1,521	10	7	...			1,521	10	7
Sonapur	1,263	13	1	...			1,263	13	1
Chichkhera	1,546	14	7	...			1,546	14	7
Tekra	3,519	7	2	...			3,519	7	2
Ambari	782	3	2	...			782	3	2
Apar	573	3	7	...			573	3	7
Pipalkhera	908	9	2	...			908	9	2
Dhargarh	1,717	5	7	...			1,717	5	7
Mondra	3,018	2	1	...			3,018	2	1
Paluta	3,983	15	5	...			3,983	15	5
Patuna	1,334	7	5	...			1,334	7	5
Pâtulda	3,784	0	0	...			3,784	0	0
Sakri	...			...			...		
Total ...	32,882	13	5	...			32,882	13	5
III.—*Dams.*									
Dam at Dhamangaon	13,487	13	9	...			13,487	13	9
Do. at Ghatang	13,847	14	2	...			13,847	14	2
Bir dam at Chikalda	27,980	4	7	..			27,980	4	7
Total ...	55,316	0	6	...			55,316	0	6
IV.—*Tank.*									
Mardi	37,216	0	0	...			37,216	0	0

Appendix D.—*Meteorological Observations made in Reserved Forests.*

Month.	Mean of Hygrometer.								Mean of Thermometer.						Rainfall.													
	Chikalda.				Makhla.				Chikalda.			Makhla.			Chikalda Reserve.	Bairagarh Reserve.												
																Chikalda.	Makhla.					Raipur.			Pili.		
	10 a. m.		4 p. m.		10 a. m.		4 p. m.		10 a. m.			10 a. m.					Tree gauge.		Ground gauge.									
	Dry bulb.	Wet bulb.	Dry bulb.	Wet bulb.	Dry bulb.	Wet bulb.	Dry bulb.	Wet bulb.	Dry maximum.	Dry minimum.	Wet minimum.	Dry maximum.	Dry minimum.	Wet minimum.	Inches.	Cents.	No. of rainy days.	Inches.	Cents.	No. of rainy days.	Inches.	Cents.	No. of rainy days.	Inches.	Cents.	No. of rainy days.	Inches.	Cents.	No. of rainy days.
April 1891 ...	78·2	62·5	89·3	63·5	88·4	65·7	95·3	66·7	83·8	72·7	55·2	90·0	73·9	61·3	..	48	5	..		...	...	...	...	...	...	...	10	3
May „ ...	85·9	64·5	90·1	74·9	89·5	67·9	95·9	68·6	86·5	72·5	59·1	91·9	75·3	63·4	.	1	1	...	28	1	...	31	1	..	...	...	...	...	...
June „ ...	80·8	68·8	90·0	68·4	85·0	71·9	93·7	71·8	81·7	71·1	64·4	91·0	74·5	67·1	1	7	5	...	28	3	...	36	3	...	94	3	...	4	1
July „ ...	69·9	68·1	73·5	73·1	71·7	69·3	74·9	78·0	70·3	67·8	63·8	71·9	68·8	67·9	18	59	25	28	94	22	35	45	22	14	77	21	15	82	20
August „ ...	67·1	66·6	69·4	68·0	69·8	68·2	71·0	69·5	67·7	64·7	64·4	71·3	62·0	62·0	11	95	30	...	.	...		..	...	12	89	26	12	58	20
September „ ...	67·3	66·9	69·3	68·3	69·9	68·8	71·3	69·9	68·3	65·3	64·1	72·0	67·6	61·0	24	80	27	20	34	21	21	34	21	17	38	22	19	56	24
October „ ...	73·4	63·3	77·6	64·5	73·9	61·0	74·9	66·3	74·2	63·4	59·4	74·4	63·6	59·9	2	24	4	...	74	5		74	5	1	28	3	1	63	4
November „ ...	70·4	57·0	71·6	58·0	75·9	59·7	76·0	61·6	70·2	58·8	57·3	72·2	59·4	53·5	.	...	...	...	...	...	...	...	...	...	...	...	...	...	...
December „ ...	66·4	53·0	70·4	55·2	67·3	56·0	7[illegible]·0	59·0	67·3	54·4	47·1	69·6	54·6	49·0	...	...	...	...	...	...	...	..	...	..	...	...	...	...	...
January 1892 ...	68·2	55·9	73·7	57·5	68·7	58·4	76·0	66·0	68·7	57·8	53·2	72·4	59·3	55·0	.	...	...	...	...	...	..	..	...	...	...	...	..	...	...
February „ ...	70·5	54·7	76·6	57·4	71·9	57·8	[illegible]9·0	66·0	71·9	67·6	50·0	75·0	61·4	53·2	.	14	2	...	3	2	...	4	2	...	...	...	..	...	...
March „ ...	80·0	56·9	87·2	59·3	84·0	61·5	90·0	62·8	82·0	66·1	52·3	85·0	73·0	56·0	...	...	...	..	...	...	..	...	...	...	...	...	...	...	...
Total ...	878·7	738·2	933·7	768·1	916·0	7[illegible]6·2	980·0	806·2	892·6	782·2	690·3	936·7	793·4	709·3	59	22	99	50	61	54	58	24	54	47	26	75	49	73	72
Mean ..	73·2	61·5	78·2	64·0	76·3	6[illegible]·8	81·6	67·2	74·4	65·2	57·5	78·0	66·1	59·1	.	...	...	..	...	...	...	...	...	...	...	...	...	...	...

APPENDIX D.— *Meteorological Observations made in Reserved Forests*—continued.

Month.		Rainfall.																				
		Bairagarh Reserve.						Gerumatergaon Reserve.			Ghatbori Reserve.			Penganga Reserve.			Kinwat Reserve.			Kelapur Reserve.		
		Patia.			Hatru.			Warwand.			Iswi.			Marwadi Khurd.			Sondabi.			Suna.		
		Inches.	Cents.	No. of rainy days.	Inches.	Cents.	No. of rainy days.	Inches.	Cents.	No. of rainy days.	Inches.	Cents.	No. of rainy days.	Inches.	Cents.	No. of rainy days.	Inches.	Cents.	No. of rainy days.	Inches.	Cents.	No. of rainy days.
April	1891	...	5	2	...	12	1	...	25	3	...	...	...	...	51	3	..	21	2	...	...	...
May	„	...	...	...	...	18	1	...	...	...	...	...	...	...	17	2	...	3	1	...	...	...
June	„	1	92	3	2	11	6	4	15	5	...	80	5	4	29	8	2	22	5	2	17	2
July	„	9	94	20	17	47	24	7	95	15	8	75	15	12	91	21	19	66	23	17	40	24
August	„	11	57	28	14	92	27	5	55	11	4	29	12	4	58	19	10	46	19	4	91	18
September	„	13	37	21	24	48	24	16	90	8	13	62	11	21	17	18	33	96	19	35	47	21
October	„	1	7	5	1	6	3	...	90	2	1	8	3	1	90	1	1	38	1	...	9	1
November	„	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
December	„	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
January	1892	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
February	„	...	...	...	...	...	...	...	5	1	...	...	...	...	17	3	...	...	...	...	...	...
March	„	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Total	37	92	79	60	34	86	35	75	45	28	54	46	45	70	75	67	92	70	60	4	66

Extract from the Proceedings of the Resident at Hyderabad, No. 2687, dated Hyderabad Residency, the 15th August 1892.

READ—

The Report on the Forest Administration of the Hyderabad Assigned Districts during the year 1891-92.

ORDER.

The report, which was due from the Conservator of Forests on the 5th July, was not received complete until the 18th idem, a few days earlier than in the previous year, but still behind time. Mr. F. B. Dickinson held office as Conservator throughout the year of report.

2. *The Berar Forest Law and rules thereunder.*—The final orders of the Government of India on the subject of the rules to be made under the Berar Forest Law were received on the 11th March 1892. The revision of the various notifications which had to be checked in detail by the several Deputy Commissioners concerned and the mechanical work of printing the voluminous lists of areas occupied a couple of months, and the 15th June was eventually notified as the date on which the Forest Law should come into force. Practically therefore the year which ended on the 31st March last represents the last year of the old system of administration.

3. *Forest areas.*—Pending the introduction of the new Law, the old classification of forests has been maintained. The new classification, however, is ready, and will come into operation simultaneously with the Forest Law. In Demarcated State Forests the total area has been increased by 76,724 acres, the important changes being an extension of 17,664 acres in the Melghat-Chikalda Reserve, and of 26,050 acres in the Amba-Barwa Reserve. There were also several minor transfers of areas in the Wun District. The alterations in the District Reserves do not call for any special remarks. In the District Unreserved Forests the chief feature is the addition of 45,453 acres of block numbers in the Wun District, all of which are available for cultivation. The Resident has no doubt that the active demand for land in Berar will cause all these numbers to be absorbed in due time. At present the stricter rules recently imposed on the subject of the disposal of trees growing on land taken up for cultivation tend to check applications. The matter is under consideration, and further experience will show whether the standard scale of prices for trees needs revision.

4. *Boundaries.*—The work of demarcating the boundaries of the regularly constituted State Forests has received considerable attention, but a good deal still remains to be done in South Berar. The system of repairing boundary marks of grazing lands in rotation according to a working plan is a practical way of doing things if the work is to be carried out by departmental agency. But the Resident would prefer to see this particular duty transferred to the village patels, and the Commissioner will be good enough to report whether any arrangement to this end is feasible.

5. *Working plans.*—The progress made in the preparation of working plans may be summarized thus. In the Melghat the preliminary work of describing the compartments of the Bairagarh and Gugamal forests has been practically completed. In the Basim Division the plans for Kinwat-Penganga have been advanced a stage, but the plan for Medsi, owing to certain proposals for enlarging the area of that forest, is still in abeyance. In Wun the Pathrot Reserve and the timber on grazing lands in three taluks have been dealt with. In Buldana preliminary arrangements have been made for the timber on grazing lands in three taluks, and plans have been prepared for two reserves and for babul bans in Akola. It is understood that very elaborate plans are not needed in Berar, and it is to be hoped that the completion of the entire system will not

be long delayed. The scheme for working the Amraoti hills, which was regarded with some doubt by Sir Dennis Fitzpatrick, does not seem to have been maturely elaborated, and the Resident would be glad to receive a special report after the matter has been further considered.

6. *Breaches of Forest Law and protection against fire.*—Fewer cases were prosecuted, and the number in which a conviction was obtained was less than in the preceding year. Undetected cases to a total number of 61 were recorded in all districts except Ellichpur, where the instructions on the subject have been disregarded. No doubt the uncertainty which prevailed under the old law as to what acts really are punishable explains to some extent the scanty results which have followed attempts to enforce the rules. This particular difficulty has been removed by the application of the new Forest Law and of the rules made under it, while the liberation of Taluk Foresters from office work will enable them to give more time to their executive duties. Consequently, a more efficient and more uniform administration of the general provisions of the Law may be hoped for in future. The results of the measures for protection against fire compare favourably with those of last year, and are creditable to the executive. The area of which the protection was attempted was larger by 16,647 acres, the area successfully protected by 25,700 acres, the percentage of success being 98·9 against 97·6. The average cost per square mile was Rs. 6-13-0, compared with Rs. 7-2-0, but there appears to be room for further improvement in this respect, certainly in Amraoti, and probably also in Akola and Wun. The time has certainly come for close enquiry into the causes of the recurrent forest fires in the Wun district, and if the izaradars are found to be to blame, the Resident will be prepared to consider what punitive measures should be applied.

7. *Grazing.*—The policy of opening some of the Demarcated State Forests to grazing upon payment of a double fee and for limited periods was no doubt a judicious measure, having regard to the special circumstances of the past season. And the arrangements which are being made for setting apart blocks for grazing in rotation and for excluding foreign cattle are all in the right direction. The Commissioner has not noticed the very important question of the adequacy or otherwise of the existing rates charged for grazing. This matter should be gone into and proposals for such changes as may be deemed advisable submitted for the Resident's orders.

8. *Communications and buildings.*—The road work executed by the Forest Department is practically confined to the Melghat. Altogether 31½ miles of road costing Rs. 9,358 were constructed during the year under report, which included several useful connections, all tending to facilitate access to the Bairagarh and Gugamal Reserves. The Akote-Selu road made by the Public Works Department was completed in December last.

In respect to wells, the Resident agrees that the increasing importance of certain centres in the Melghat may render it necessary to substitute reservoirs for wells. But he thinks that there must be several places in the Melghat where a single good well would be immensely useful, and he hopes that the larger works contemplated will not cause the less costly and less striking improvements to be overlooked.

9. *Yield and working.*—In Demarcated Forests the yield from timber shows a net increase of Rs. 17,927, and in District Reserved and Unreserved Forests a decrease of Rs. 23,468. In the former the increase is almost entirely due to the output from the Bairagarh fellings, which have been freely taken up by traders from Ellichpur and Akola. The decrease in the unreserved forests arises from restrictions and alterations in the method of cutting small teak poles and which have been imposed, none too soon, to check the serious inroads upon the teak plantations in the open forests.

The yield from fuel was less in the Demarcated Forests and more in the District Reserved and Unreserved Forests. Now that the new Law has come into force the question of taxing head-loads in the open Melghat should be taken up and disposed of. The large increase of 368,499 in the number of bamboos supplied from Demarcated Forests is counterbalanced by the almost equally large decrease of 324,253 in the yield from the District Reserved and Unreserved Forests. It looks as if the enhanced rate applied to the open forests in the Melghat has been pitched somewhat too high. The remarks in paragraph 3 of the Commissioner's review on the subject of the growing scarcity of fuel owing to the immense and growing consumption by mills and ginning factories touch a very important matter. A solution of it may perhaps be found in the re-opening of the coal-fields in the Wun district. The proposal to subject the mills to special taxation does not commend itself to the Resident, and the question whether a new departure is admissible at the revision settlement in respect to banks of rivers and nalas included in *potkharab* is one that must be worked out in detail and submitted for consideration in the ordinary way.

10. *Financial Results.*—The financial results are satisfactory. The revenue of the year amounted to Rs. 5,11,180, an increase of Rs. 24,071 over the revenue of 1890-91, which was at that time the highest on record. The increase occurs in all the principal items except timber—the reasons for a decrease under this head have been noticed in the preceding paragraph—but it is mainly due to the enhanced receipts from the sale of grass and from grazing. The expenditure of the year increased by Rs. 28,418, and the ratio of surplus to gross revenue was 61·3 per cent. compared with 65·3.

11. *Notice of officers.*—The Resident has read with satisfaction the favourable remarks recorded by the Conservator of the good work done by Mr. Prevost and other officers of the department, and he is also much indebted to Mr. Dickinson for his own excellent management of the important charge entrusted to his care.

(By order.)

G. R. IRWIN,

Secretary for Berar to the Resident.